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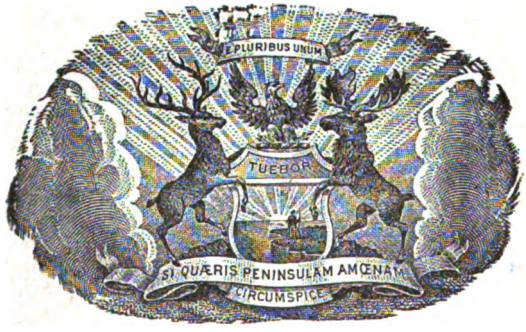
TWENTIETH ANNUAL REPORT

OF THE

COMMISSIONER OF RAILROADS

STATE OF MICHIGAN

FOR THE YEAR 1892.



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1892.

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ALFRED UPDIKE, JACKSON CO., *Mechanical Engineer.*

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REPORT.

STATE OF MICHIGAN,
OFFICE OF THE COMMISSIONER OF RAILROADS,
Lansing, November 22, 1892.

To His Excellency, Edwin B. Winans, Governor of Michigan:

In conformity with law, I have the honor to submit the twentieth annual report from this department, being for the year ending December 31, 1891. It contains the reports of the different corporations for that year, with tables of statistics compiled therefrom, together with such facts, statements and explanations as will disclose the actual workings of the system of railroad transportation of freight and passengers in this State, with some suggestions in relation to certain changes which, it has seemed to me, should be made in the law to promote the interests of railroads and the public.

There has been no well-founded complaint to this department of discrimination by any railroad corporation in the matter of freights between points intersected by competing lines and points not so intersected.

The case of Wellman vs. the Chicago & Grand Trunk Railway Company, 83 Mich. 592, sustaining the constitutionality of Act No. 202, Laws of 1889, which fixed the maximum charge for the transportation of passengers of the different roads of the State, upon the basis of their gross earnings per mile, was carried by writ of error to the Supreme Court of the United States by the Chicago & Grand Trunk Railway Company. The Supreme Court of the United States (143 U. S., 339) affirms the judgment of our Supreme Court, and holds that the lower court did not err in refusing to instruct the jury that said act was unconstitutional in its application to the road in question, merely upon an agreed statement, in a friendly suit to test the constitutionality of such act, showing that the income of the company, at the rates existing before the enactment of such statute, was entirely consumed by operating expenses and fixed charges, and the testimony of two of its officers that an increase of freight rates would diminish the income of the road, there being no evidence to show that a reduction in passenger rates would not increase the travel sufficiently to equalize the earnings, nor of what the operating expenses consisted.

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ANNUAL INSPECTION.

A personal examination has been made into the management of all of the railroads of the State, and the railroad stations have been carefully inspected. This report is for the year 1891, but by reason of the time allowed by statute to the railroad companies of the State to file their annual reports the Commissioner's report necessarily issues so late in each succeeding year as to render it impracticable and of little use to confine this branch of it to the condition of the railroad properties as obtained by inspection for the year covered by the report. I, therefore, include with this report for 1891 the result of my inspection made in 1892. In so doing I am following the practice of this department. There has been a marked improvement during the last year in the condition of the railroad properties of the State in the matter of culverts, tracks and bridges. Many cuts formerly spanned by small trestle bridges and culverts have been filled up and large iron pipe or tile inserted. Iron bridges and stone culverts have been in many places substituted for wooden structures. Wooden bridges have been rebuilt and the ties placed closer together so as to prevent serious accident in case of derailment. The ballasting of tracks has received great attention and more gravel is being used. The rounding out of the ballast and the cutting of the grass line in many cases causes the right of way to present a substantial and handsome appearance. A growing interest is being shown by the railroad companies in constructing station houses which, while affording internally every convenience and comfort to the public, are pleasing to the eye and ornaments to the landscape. There are, however, some station houses which are far from what they should be.

AU SABLE & NORTHWESTERN.

This road runs from Au Sable to McKinley, thirty-seven miles. It is a narrow guage and is in fair condition.

CHICAGO & GRAND TRUNK SYSTEM.

This is the main line of the Grand Trunk system in Michigan. Its immense traffic crowds to the utmost the capacity of its single track. The road is well kept up, and several substantial improvements have been made in the last year. A liberal amount of ballast has been supplied and new ties have been put in. The alignment is first-class; the fences are in good repair, and their highway and street crossings appear to have received proper attention.

CHICAGO, KALAMAZOO & SAGINAW.

The road is in good shape and the track is well ballasted; the station houses are neat and clean; the fences are in good order and there are sign-boards at all crossings. The business of the road is increasing.

CHICAGO & NORTHWESTERN.

The entire road-bed and track of this line in the State is in first-

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class condition. All necessary repairs and renewals of bridges are being made. New stone culverts are taking the place of wooden trestle work.

CHICAGO & WEST MICHIGAN AND DETROIT, LANSING & NORTHERN.

These roads are under one management. Their tracks are in excellent condition both as to surface and alignment. A very noticeable improvement appears in the Chicago & West Michigan Railway where a large number of bridges and trestles have been filled in with earth, total length of same 1,200 feet. Several more, with a total of 300 feet, are marked for the same improvement. The tracks, bridges and buildings are a credit to the officers of these companies. The line from Traverse City to Petoskey was completed and put into operation last spring. The track has been very well laid, the bridges are substantial, the station houses are handsome, commodious, and contain every convenience for the traveling public. The mechanical department has complied with the statutes, as nearly as possible, by equipping all the engines on the line, except three, with a driver brake. The coaches are supplied with steam heat which gives perfect satisfaction; the train service is excellent. Very few complaints of any nature have been received against the above lines within the last year.

CINCINNATI, JACKSON & MACKINAW.

Very marked improvements have been made in this road since the last inspection. While there is still room for additions in this respect, the road is improving rapidly both in equipment and service.

CINCINNATI, WABASH & MICHIGAN.

This is now known as the Michigan division of the Cleveland, Cincinnati, Chicago & St. Louis Railway. The road is in fair shape; some of the ties are in bad condition and should be replaced by new ones. The fences are in a fair state of repair. The passenger cars and engines are in good order. All engines are equipped with driver brake.

DETROIT, BAY CITY & ALPENA.

The principal improvement in this road has been in the way of tie renewals and ballasting. The road-bed is in fine condition in consequence.

DETROIT, GRAND HAVEN & MILWAUKEE.

This is one of the oldest lines in the State. Its track, fences and equipment are good, and its passenger service is ample. Some complaint has been made to this department about depot buildings, especially that at Ionia.

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DULUTH, SOUTH SHORE & ATLANTIC.

This road shows a very decided improvement over the last year. It is now well ballasted from St. Ignace and Sault Ste. Marie nearly all the way to Marquette. From Marquette to Houghton the track is in a fair condition. The trestle work and the bridges, west of L'Anse, will require quite extensive repairs in the near future. A large amount of trestle should be filled in, and several bridges rebuilt. The motor power and the passenger cars are A, No. 1. From Nestoria to Bessemer the track is in a fair condition. The trestle work and bridges on this part of the line need quite extensive repairs. Under its efficient management, I have no doubt that this road will continue to improve, and in the near future become a very important factor in transportation traffic from Duluth to the sea board.

FLINT & PERE MARQUETTE.

The track surface and alignment of the main line of the Bay City, Mt. Pleasant, St. Clair, Manistee and Port Huron divisions are first-class. Several new iron bridges have been erected and old wooden bridges removed. The filling up of the long and deep trestle near Manistee is a fine, permanent improvement. Several station houses on the Western division need extensive repairs. Motor power and rolling stock are in first-class condition.

The Sand Beach and the Almont divisions are narrow gauge. The Sand Beach division is in very fair condition. The Almont division is in poor condition and needs new iron. The company expects, in the near future, to make both of these divisions standard gauge.

GRAND RAPIDS & INDIANA.

There is improvement in the road-bed and track of this road over last year. The Traverse City and Muskegon branches are found in a very fair state. The Southern division is in good condition; the fences are in perfect repair. Some complaints have been made relative to the condition of the depot at Cadillac, otherwise the station houses are in a fair condition. The company has recently purchased twenty locomotives and put them into service on the road.

LAKE SHORE & MICHIGAN SOUTHERN SYSTEM.

The track of this system is in excellent condition, and, upon the through line, is of great smoothness. Considerable ballasting has been done and the rode-bed is well surfaced and well lined. Many wooden structures have been replaced by stone culverts. A considerable amount of steel rails has been put in upon the various divisions, and upon all the branches there have been great improvements in the renewal of culverts and trestles with permanent work. The equipment of the road and the service is in every respect first-class. There are many fine station houses upon the line of the road, and, except in a few instances upon some of the branch lines, they are handsome structures, containing every convenience for the traveling public. There is a notable effort to improve the appearance of the station grounds, and to make them and the right of way objects of neatness and beauty.

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LOWELL & HASTINGS.

While there have been no marked improvements by this company during the past year, the road was found to be in good condition. The equipment is safe and adequate.

MANISTEE & NORTHEASTERN.

This road is in good shape. It is well ballasted, except the last few miles going to Traverse City which part was to be finished in September. The station houses are in good condition and the service is first-class. A fine new station house is being built at Traverse City. The passenger cars and engines are in fine condition.

MASON & OCEANA.

This road is in very good shape. The trains are mostly log trains. There is one passenger train a day each way. The road-bed is good; the surface, ties and iron are in good order. Part of the road is well fenced. There are no sign-boards at the highway crossings. There is one engine without a brake on the tender or the engine, and there are some leaning trees which should be cut.

MICHIGAN CENTRAL SYSTEM.

This system is equipped with 80-lb. steel rails from Detroit to Niles, and from Niles to Chicago with about ½ each 65 and 80 lb. steel. The entire road-bed has been newly ballasted within the past three years, between Niles and New Buffalo this year, and is in an absolutely perfect condition. The road is double tracked except 18 miles from Dexter to Ypsilanti. The single track is protected by block signalling of the latest device. A large number of fine, new iron girder bridges has been substituted for wooden structures, notably over the Kalamazoo river, ½ mile west of Battle Creek, and over the same river, ½ mile east of Kalamazoo. There is a fine new girder bridge at Geddes. The new bridge at Battle Creek necessitated raising the track four feet. Upon the Air Line division, stone culverts have been substituted for ten bridges. Great attention has been paid to the rounding out of the shoulders of the road-bed, which is a marvel of smoothness and beauty; and the entire right of way presents a most handsome and finished appearance. The fences are in perfect condition. The entire line presents, with its cars, its equipment, its service, its conveniences, and its buildings a monument of liberality in expenditure, of far-seeing railroad management, of good taste and of engineering skill, of which the State may be justly proud. The station houses are many of them expensive and handsome structures, and are generally everything that could be desired. A special point has been made to beautify the station grounds which, in many places, are well-kept lawns, adorned with graceful walks and a profusion of plants and flowers.

MILWAUKEE, LAKE SHORE & WESTERN.

This line has about 68 miles of track in this State. It is doing a very

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creditable business both freight and passenger. The road is in good condition. The bridge over the Montreal river is being replaced by a stone culvert costing $38,000.

MILWAUKEE & NORTHERN.

This road runs from Champion to Iron Mountain in this State with a branch to Menominee and is a first-class road in every particular. The Ontonagon & Sidnaw division extends from Ontonagon to Sidnaw, a junction with the Duluth, South Shore & Atlantic Railway. The track of this division is in a very fair condition; extensive repairs and renewals have been made and are still being made on the bridges. The company is now completing a line from Sidnaw to some point on their main line, not yet determined, which, when completed, will make a through line from Ontonagon to Milwaukee, of great value to its patrons.

MINERAL RANGE AND HOUGHTON & CALUMET.

These roads are under one management; being competing lines, the law does not allow them to consolidate. They are narrow gauge with standard ties, and 60-pound steel rails. The track, bridges, and rolling stock were found in first-class condition. A large number of frogs and guard rails were found not blocked as required by law. The assistant superintendent promised to have the same attended to at once.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.

This road runs from Minneapolis to "The Sault," connecting with the Canadian Pacific Railway for eastern points. It has an excellent road-bed. Its coaches and conveniences for the public are fully up to the standard.

PONTIAC, OXFORD & NORTHERN.

This company has only a limited traffic. The track is in fair condition, and is a credit to the local manager, in view of the limited amount of ballast that has been supplied by the management. There are several bridges and culverts that need repairs, especially the bridge at the south end of the yard at Caseville.

SAGINAW, TUSCOLA & HURON.

This line was changed from a narrow to a standard guage in June, 1891, and is in first-class condition. Station houses are ample, neat and commodious.

TERRE HAUTE & INDIANA.

This is known as the Vandalia line. There are only about 25 miles of road in this State. It has been in operation about two years, and is in good condition. The highway and farm crossings and the fences are in good order.

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TOLEDO, ANN ARBOR & NORTHERN MICHIGAN.

This company acquired the line from Thompsonville to Frankfort, 23 miles, and took possession of it on the 14th of May, 1892. The bridges were found in a very good condition; 75,000 new ties have been put in within the last year, and many more are needed. A large amount of the fencing is in poor condition, and should be rebuilt between the State line and Howell, and between Owosso and Ashley. The track is in a fair condition, but requires more ballast. Improvements have been made, in the way of filling up a large number of open culverts and putting in 24-inch tile, between the State line and Howell; also in cutting down some very heavy grades on the Northern division.

The company is building a new line on the southern side of Betsey lake at Frankfort, and is erecting dockage for their new line of boats which are being built at Toledo.

TOLEDO & SOUTH HAVEN.

This is a narrow guage road, and, generally speaking, was found in fair condition.

WABASH.

The equipment of this road was found to be in good condition. The service rendered is very good; the rolling stock safe and ample for all needs of shippers and the traveling public.

WISCONSIN CENTRAL.

There are six miles of this line in the State. It is a first-class road. The road-bed, equipment and buildings are perfectly satisfactory.

LEGISLATION.

First, An attempt was made, under Act 152, Session Laws of 1883, to tax sleeping, palace, chair and drawing-room car companies on their gross receipts. It has never been possible to enforce this statute and the great palace car companies are wholly escaping taxation by the State.

The case of Pullman's Palace Car Company vs. Pennsylvania, 141 U. S. Rep. 18, points out a constitutional method of imposing a tax upon Pullman's Palace Car Company. I would respectfully recommend that the existing statute on this subject be repealed and that a statute be enacted similar to the one in Pennsylvania which was sustained in this decision. There is no reason why these companies, which are obtaining large revenues from the operation and employment of their cars within this State, should not bear a proportional part of the burdens of taxation.

Second, The law humanely provides that whenever, in the opinion of the Commissioner of Railroads, the safety of the public would be more effectively secured by the building of a bridge where a highway or street is crossed by any railroad, he shall direct the corporation operating such railroad to erect and maintain a bridge at such crossing.

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It frequently occurs that the Commissioner in ordering the construction of such a bridge is confronted with this difficulty: approaches to the bridge must be constructed upon portions of the highway which lie outside of the railroad right of way, approaches which will be a damage to adjoining property owners. There is no provision by the statute, under which the public can condemn a right of way for these approaches and have the damages assessed by a jury. However great may be the public need, the Commissioner has no power to enforce the construction of the approaches which are necessary to the completed bridge. The law should be amended giving to the municipality power to condemn for such approaches, and conferring upon the Commissioner power to order the construction of a bridge and its approaches as against the municipality as well as the railroad company, and to divide the cost of condemnation and construction, as in his judgment may seem fit, between the railroad and the municipality. In case of one railroad crossing another, either company should have the right to condemn the necessary land for the change of grade; and the Commissioner should have the power to divide the cost of such change of grade, including the land damages, as in his judgment may seem meet.

These amendments should be made to Sec. 17 of the General Railroad Laws.

Third, My predecessor, the Honorable John T. Rich, in his report for the year 1890, recommended much needed legislation, recommendations which I wish to renew. The rapid growth of our cities during the last few years has brought about the construction and extension of a large number of street railway lines operated in many cases by electric or other power, faster than horse power. There has also come into existence a number of railway companies incorporated under the train railway act, chapter 94, Howell's Annotated Statutes. These companies employ as a motor power for their cars steam locomotives which run at a high rate of speed. Section 28 of the General Railroad Laws, which confers authority upon the Commissioner to prescribe the use of the interlocking switch and signal system, or some other system that will secure equal safety in the operation of trains of cars at all crossings and junctions of railroads in this State, should be so amended as to give the Commissioner jurisdiction over the crossing of steam railroads by street railways of all classes. I cannot too strongly urge the importance of this amendment. Some simple and inexpensive device can be employed which will render it impossible for a collision to occur at such crossings. At present the Commissioner is powerless in the matter.

Fourth, Section 34 of the General Railroad Laws provides that no bridge shall be constructed over any railroad at a height of less than 18 feet above the track, except by the written consent of the Commissioner of Railroads. This is a protection to brakemen when riding on the tops of freight cars where their duty calls them. Far more deadly than a bridge is an invisible trolley wire of an electric street railway, stretched across the railroad right of way. These wires should be carried so high and should be so secured that there can be no possibility of accident from this source. I am very doubtful whether under the existing law the Commissioner has any power to regulate this matter. I recommend that all doubt should be removed.

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Fifth, Article 4, Section 14, amended in 1883, and Article 28 of the act defining the duties of the Railroad Commissioner should be so amended as to permit railroad companies to interlock draw bridges, under plans approved by the Commissioner, thereby doing away with forced stops. The laws of Illinois and Canada have been amended in this regard, and it is believed that the protection against accident, afforded by a proper system of interlockers at draw bridges, will be greater than to depend, as now, upon stoppage of trains.

Sixth, Section 95 of the General Railroad Laws, which refers to the erection and maintenance by railroad companies of gates at crossings should, I think, be so amended as to leave it in the power of the Commissioner to designate the number of hours a gate-keeper, attending such gates, shall be on duty. As the law now stands, gate-keepers are required to be on duty day and night. Cases have been presented to this department where gates would have been a better protection at a crossing than a flag-man and could be maintained at no greater cost, under the same hours of service; but the circumstances were such, the traffic was so light at night, perhaps ceasing wholly on Sunday, that the terms of the statute worked an unnecessary and unreasonable hardship upon the company. The Commissioner can at all times satisfy himself as to the relative amount of traffic passing over any given street during day or night and on Sunday, and should be the person to, in the interest of the public as well as railroad companies, fix the number of hours such gate-keepers should be on duty, as he does in the case of flag-men.

Seventh, I would respectfully recommend that Section 46 of the General Railroad Laws, as amended, shall be so amended as to require a railroad company to give notice, at its own expense, in such manner as shall be directed by the Commissioner of Railroads, of its application to the Crossing Board for an approval of the route contemplated by such company. Before a railroad company should be permitted to obtain the power to condemn a right of way, persons who may be interested and public authorities should have an opportunity of knowing what is being done, and of being heard, if they so desire, by the board.

Eighth, Section 19 of the General Railroad Laws requires the Commissioner to annually visit the railroad stations in this State; and yet no power is given, whatever may be the condition of such stations, to enforce any regulations in the interest of the public. The attention of this department has been called to cases where railroad companies have failed to provide at their stations any privy accommodations even for women or children. I recommend that the power be conferred upon the Commissioner to enforce reasonable regulations in the interest of public accommodations at railway stations.

Ninth, Complaint has been made to this department, in one instance, that a railroad company customarily and persistently stops certain trains at a point so remote from the depot as to cause the greatest inconvenience and discomfort to passengers in getting to and from the trains. I recommend that some provision be made which will cure this evil.

Tenth, Act 133 of the Session Laws of 1891 provides that every railway or railroad company organized or existing under any special act or acts of incorporation, or special or general acts of consolidation, or which has heretofore been taxed under any special act or acts of

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the Legislature of this State shall, from and after the 31st day of December, 1891, for all purposes of taxation be subject in all respects to the provisions of *chapter 75 of the Compiled Laws of 1871* and the acts amendatory thereof, the same as if every such company had organized under the provisions of said chapter.

Chapter 91 of Howell's Annotated Statutes was enacted in 1873 (S. L. 1873, p. 496). Section 13, article 5 of this act repealed chapter 75 of the Compiled Laws of 1871. Act 133 of the Session Laws of 1891 is, therefore, nugatory. The mistake probably arose from the fact that the act of 1873 now appears in Howell's Annotated Statutes in lieu of chapter 75 of the compiled Laws of 1871.

Eleventh, It has been urged by counsel for the Chicago and North Western Railway Company upon a hearing had before the Commissioner of Railroads, Secretary of State and Attorney General, under Act No. 174 of the Public Acts of 1891, that said act is defective in not prescribing by whom the notice shall be given, in behalf of the State, to the railroad company where a claim is made by the State that the proportion of the income of any company in this State exceeds the proportion of miles of said company within this State to the entire road of such company. It would be well to so amend this act as to save any question in this regard.

Twelfth, Every report from this department shows a large number of deaths and injuries resulting from the use of railroad tracks as a highway for footmen. During 1891, sixty-nine persons were killed and thirty-nine were injured while trespassing upon railroad tracks. Other States have passed laws to restrain persons from indulging in this hazardous practice. I believe that this rate of deaths and injuries may be materially reduced by wise legislation.

CORPORATIONS.

The number of corporations reported to the department for 1891 is seventy-eight; of these sixty-six do a general commercial business, nine confine their operations to lumbering and mining, and three are occupied in providing terminal facilities. These corporations are controlled by forty-five separate managements.

The following five companies report this year for the first time: St. Clair Tunnel, Au Sable & Northwestern, Jefferson avenue, Manistee & Grand Rapids, and Fort Street Union Depot Company. Reports from the Marquette, Houghton & Ontonagon, the Marquette & Western and the Ontonagon & Brule River railroad companies are not included in the present volume, the two former having been absorbed by the Duluth, South Shore & Atlantic and the latter by the Milwaukee & Northern. The companies thus absorbed retain their franchises but no longer participate in railroad operation.

There has been one consolidation, during the period under report. A union of the Michigan & Mackinaw Railroad Company and the Cincinnati & Michigan Railroad Company, to be known as the Cincinnati, Jackson & Mackinaw Railway Company, was formed March 9, 1892. The capital stock of the new company is $16,300,000.

A statement showing articles of association filed by new railroad companies, amendments of charters, and other changes affecting the status of existing companies, since the publication of the preceding report. will be found in the appendix hereto.

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TRACK MILEAGE.

The railroad companies doing business in the state during the year 1891 report a total of 15,266.41 miles of road operated, of which 7,305.62, or 47.85 per cent, are in Michigan. These companies report 13,223.34 miles of road owned by them, 7,274.94 miles or 55.01 per cent, being in this State; 7,133.46 miles being devoted to general traffic and 141.48 being operated by ore and forest companies. This shows an increased mileage over 1890 of 339.65 miles.

Following is a detailed statement of increase and decrease in the track mileage of the several companies reporting change in this respect since the last report.

Statement showing increase and decrease of track mileage in the State of Michigan during the year ending December 31, 1891.

Companies.	Increase.	Decrease.
General traffic roads.		
Au Sable & Northwestern	106.00	
Bay City Belt Line	6.29	
Chicago & Northwestern	15.00	
Chicago & West Michigan		7.10
Duluth, South Shore & Atlantic		1.44
Flint & Pere Marquette	145.10	
Grand Rapids & Indiana	6.85	
Hancock & Calumet	1.25	
Jefferson Avenue	5.62	
Lake Shore & Michigan Southern	10.55	
Manistee & Grand Rapids	23.52	
Manistee & Northeastern	12.61	
Manistique	3.25	
Milwaukee, Lake Shore & Western	14.85	
Saginaw Bay & Northwestern		2.10
Saginaw, Tuscola & Huron	2.19	
St. Clair Tunnel	1.01	
Toledo, Ann Arbor & North Michigan		5.65
Wisconsin Central (Gogebic & Montreal River)		1.18
Ore and forest roads.		
Dead River	2.98	
Total	357.07	17.42

Besides the above, the State Board of Railroad Crossings, since the last report from this department, has approved maps of the following roads, the mileage of which is approximated.

Duluth, South Shore & Atlantic Railway,		
Ewan to south branch Ontonagon river	10.00	miles
Ironwood to a junction with the main line near Montreal station	5.00	"
Escanaba, Iron Mountain & Western Railroad,		
Menominee river to Little Bay de Noque	52.00	"
Grand River Railroad,		
Grand Rapids to Grand Haven	28.35	"
Manistee & Grand Rapids Railroad,		
Freeland Branch	.68	"
Luther Extension	13.10	"

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Manistique & Northwestern Railroad,	
Manistique to Negaunee	93.00 miles.
Milwaukee & Northern Railroad,	
Sidnaw to Channing	48.00 "
Total	250.13 miles

The miles of double track reported is 141.16, an increase for the year of .65 miles.

The mileage of sidings is 1,893.66, as compared with 1,934.10 for 1890, a decrease of 40.44 miles.

From the table it appears that there are 9,309.76 miles of single track within the State, an advance of 290.87 miles, or 3.12 per cent from the preceding year.

The following table exhibits the growth, from year to year since 1838, of the railroad system of the State:

Table showing progress of railroad construction in Michigan from 1838 to 1891 inclusive.

Years.	Miles.	Years.	Miles.
1838	63	1865	931
1839	71	1866	943
1840	104	1867	1,060
1841	147	1868	1,120
1842	147	1869	1,262
1843	180	1870	1,739
1844	220	1871	2,296
1845	223	1872	2,822
1846	279	1873	3,252
1847	279	1874	3,313
1848	326	1875	3,347
1849	353	1876	3,410
1850	380	1877	3,455
1851	421	1878	3,564
1852	425	1879	3,657
1853	425	1880	3,823
1854	425	1881	4,252
1855	462	1882	4,609
1856	530	1883	4,906
1857	579	1884	5,120
1858	703	1885	5,247
1859	770	1886	5,577
1860	770	1887	5,768
1861	777	1888	6,411
1862	811	1889	6,760
1863	812	1890	6,957
1864	891	1891	7,274.94

CAPITAL STOCK.

The amount paid in, as per tabular statement No. 3 appended to this report, is $331,886,888.98, the stock being classified as follows:

Common	$245,358,179 36
Perferred	85,879,370 56
Paid in on shares not issued	649,339 06
Total	$331,886,888 98

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While somewhat over a million dollars have been added during the year to capital stock paid in, the above amount is a decrease from the figures of the preceding year of $6,312,163.72. This apparent decrease is largely accounted for in the absorption of the Marquette, Houghton & Ontonagon, and the Marquette & Western by the Duluth, South Shore & Atlantic Railway; and that of the Ontonagon & Brule River by the Milwaukee, Lake Shore & Western Railway.

The capital stock paid in per mile of road is $25,098.57, an increase of $2,079.29 per mile over the figures for the previous year.

In view of the fact that there has been a decrease in capital stock paid in, this increase of capital stock per mile, as compared with the figures for the previous year, would seem to be erroneous. The apparent increase is due to spreading capital stock for 1891 over road *owned*, instead of road *operated*, as in the preceding report. Capital stock paid in per mile operated would be $21,739.68, a decrease of $1,279.60 per mile from the figures for 1890.

INDEBTEDNESS.

The total indebtedness of the railroad corporations, as reported for the year 1891, amounts to $435,781,670.32, which is classified as follows:

Funded debt, 91.42 per cent	$398,409,755 20
Unfunded debt, 8.58 per cent	37,371,915 12
Total debt	$435,781,670 32

The above statement shows an apparent increase in debt over the previous year of $19,396,141.45. By an oversight in making up table 4 in the report for 1891, the indebtedness of the Detroit, Monroe & Toledo and the Kalamazoo & White Pigeon was taken into account, although it had already been included in that of the Lake Shore & Michigan Southern Railway.

The total indebtedness then, at the close of the year 1890, was $415,061,528.87, instead of $416,385,528.87, and the increase in debt for the year 1891 is $20,720,141.45 or 4.99 per cent, determined as follows:

Funded	$10,843,886 10
Unfunded	9,876,255 35
Total	$20,720,141 45

The debt per mile of road is $32,955.48, an increase of $244.09 or .74 per cent over the amount per mile for 1890.

The following statement shows the changes in indebtedness of the railroad companies during the year 1891:

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Statement showing changes in indebtedness of Michigan railroads for 1891.

Companies.	Increase.	Decrease.
Commercial roads.		
Au Sable & Northwestern	$132,827 33	
Chicago & Grand Trunk	341,452 89	
Chicago & Northwestern	5,433,598 29	
Chicago & West Michigan	2,029,788 20	
Cincinnati, Jackson & Mackinaw		$16,497 82
Cincinnati, Saginaw & Mackinaw	45,921 06	
Cincinnati, Wabash & Michigan		33,573 30
Detroit, Bay City & Alpena	79,135 36	
Detroit, Grand Haven & Milwaukee		15,591 99
Detroit, Lansing & Northern	111,602 84	
Grand Rapids, Lansing & Detroit	767 75	
Duluth, South Shore & Atlantic	2,069,992 29	
Flint & Pere Marquette	436,606 79	
Frankfort & Southeastern	9,809 38	
Grand Rapids & Indiana	533,865 15	
Muskegon, Grand Rapids & Indiana	75 00	
Hancock & Calumet	98,199 90	
Indiana & Lake Michigan	43,828 91	
Jefferson Avenue	77,344 45	
Lake Shore & Michigan Southern		250,000 00
Lowell & Hastings	21,517 45	
Manistee & Northeastern	329,076 02	
Manistique	14,969 10	
Mason & Oceana	26,347 12	
Michigan Central System	336,527 57	
Canada Southern Bridge	72,937 60	
Detroit & Bay City	424,000 00	
Jackson, Lansing & Saginaw	85,000 00	
Michigan Midland & Canada	29,902 72	
Toledo, Canada Southern & Detroit	105,000 50	
Milwaukee, Lake Shore & Western	1,485,568 20	
Milwaukee & Northern		29,345 95
Mineral Range	172,158 17	
Minneapolis, St. Paul & Sault Ste. Marie	2,892,156 80	
Pontiac, Oxford & Northern	384 45	
Saginaw, Tuscola & Huron	275,546 46	
Saginaw Valley & St. Louis	18,432 07	
Toledo, Ann Arbor & North Michigan		12,296 79
Toledo, Saginaw & Muskegon	23,699 92	
Toledo & South Haven	7 94	
St. Joseph Valley	6,014 67	
St. Clair Tunnel	2,592,703 31	
Fort Street Union Depot & Station Co.	838,414 90	
Total commercial roads	$21,133,086 98	$356,305 85
Ore and forest roads.		
Bear Lake & Eastern		$4,531 83
Hecla & Torch Lake	$2,440 85	
Hobart & Manistee River		43,199 41
Lake County		800 00
Manistee & Luther		18,168 88
North Branch & Sauble River		5,195 07
Quincy & Torch Lake	12,874 61	
Total ore and forest roads	$15,315 46	$71,895 14
Total all roads	$21,148,342 44	$428,200 99

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STOCK AND DEBT.

The total stock and debt for the period under report amounts to $767,668,559.30 as against $750.831,052.76 for the preceding year, an increase of $16,837,506.54, or 2.19 per cent. Per mile of road it is $58,054.05, a decrease of $931.49, or 1.6 per cent.

COST.

The total cost of the railroad properties reported to this department at the close of the year 1891 is $704,894,197.04. an increase of $5,492-375.89, or .78 per cent. Per mile of road it is $53,306.82, a decrease of $1,638.42 from the figures for 1890. Michigan's proportion of cost figured upon a pro rata mileage basis, is $277,401,397.57, a decrease of $3,804,326.98, or 1.35 per cent from the figures for 1890. Though there has been added to Michigan's proportion of cost, during the year just closed, the sum of $5,617,780.60, as will be seen by reference to tabular statement No. 5, this table shows the decrease above stated, which is largely due to dropping from the table the cost of the properties of the Marquette, Houghton & Ontonagon, the Ontonagon & Brule River and the Hobart & Manistee River railroads. The proportion of cost for Michigan is 39.35 per cent of the entire amount reported.

The total stock and debt for 1891 amounts to $767,668,559.30, which is an increase of $16,837,506.54 upon the preceding year and $62,774,-362.26 in excess of the reported cost of the several properties.

I append the usual statement showing the fluctuations of the excess of stock and debt over cost, since the organization of this department.

COMPARATIVE STATEMENT.

Stock and Debt with Cost.

Year.	Excess of Stock and Debt over Cost.
1873	$14,605,531 11
1874	13,241,471 81
1875	17,563,469 80
1876	19,556,513 93
1877	20,102,224 28
1878	18,435,558 69
1879	17,091,975 90
1880	16,563,711 82
1881	20,150,073 00
1882	28,322,983 60
1883	41,768,609 09
1884	47,397,518 61
1885	50,543,044 88
1886	50,294,846 20
1887	48,982,240 38
1888	62,899,682 54
1889	54,007,579 16
1890	51,429,231 61
1891	62,774,362 26

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FINANCES.

GENERAL EXHIBIT OF REVENUES AND DISBURSEMENTS.

The total receipts reported as resulting from the operation of companies participating in the railroad business of this State during 1891 are $96,682,121.41, an increase of $3,251,687.81, or 3.46 per cent. Tho total expenses of operation, taxes included, are $66,030,872.72, or $30,651,248.69 less than the revenue from operation. The expense account shows an increase of $2,105,781.18, or 3.29 per cent over the previous year.

The disbursements from the net receipts are as follows:

Interest on the funded debt	$16,845,573 21
Interest on the unfunded debt	768,019 24
Rentals	3,496,864 94
Dividends	8,642,292 22
Total disbursements	$29,752,749 61
Surplus of receipts to disbursements for the year	898,499 08

ANALYSIS OF EARNINGS AND EXPENSES.

The traffic earnings for 1891 aggregate $95,777,886.57, an increase over 1890 of $3,437,093.30, or 3.72 per cent.

The total operating expenses and taxes are $66,030,872.72. being an increase upon 1890 of $2,105,781.18, or 3.29 per cent.

The traffic earnings are classified between passenger and freight, as follows:

Passengers	31.44%	$30,121,333 31
Freights	68.56%	65,656,553 26
Total		$95,777,886 57

The foregoing statement shows an increase of passenger earnings for the year of $2,155,777.88, and of freight earnings of $1,281,315.42.

The percentage of passenger earnings is 1.15 more than for the preceding year.

The passenger earnings are derived as follows:

From fares	84.35%	$25,409,645 69
express and baggage	5.97%	1,797,388 80
mails	9.33%	2,813,067 79
other sources	.35%	101,231 03
		$30,121,333 31

The earnings of the freight department are made up as follows:

Transportation of freight	99.38%	$65,251,790 39
Other sources	.62%	404,762 87
		$65.656,553 26

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COMPARISON OF CLASSIFIED EARNINGS, 1890 AND 1891.

Transportation of Passengers.

1891	84.35%		$25,409,645 69
1890	84.53%		23,639,079 10
Decrease	.18%	Increase	$1,770,566 59

Express and Baggage.

1891	5.97%		$1,797,388 80
1890	6.30%		1,761,159 32
Decrease	.33%	Increase	$36,229 48

Mails.

1891	9.33%		$2,813,067 79
1890	8.86%		2,478,673 48
Increase	.47%	Increase	$334,394 31

Other Sources.

1891	.35%		$101,231 03
1890	.31%		86,643 53
Increase	.04%	Increase	$14,587 50

TRANSPORTATION OF FREIGHT.

Freights.

1891	99.38%		$65,251,790 39
1890	99.42%		64,003,566 15
Decrease	.04%	Increase	$1,248,224 24

Other Sources.

1891	.62%		$404,762 87
1890	.58%		371,671 69
Increase	.04%	Increase	$33,091 18

The traffic earnings per mile of road operated are $6,273.76, a decrease from 1890 of $11.35.

Traffic Earnings per Train Mile.

	1891.	1890.		
Passenger trains	$1 08 80	$0 93 80	Increase	$0 15 00
Freight trains	1 48 40	1 24 33	"	0 24 07
Average of all trains	1 33 20	1 13 35	"	0 19 85

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Operating Expenses.

The operating expenses for the year are classified as follows:

Maintenance of way and buildings	$12,715,304 49
Maintenance of rolling stock	10,958,735 05
Conducting transportation	34,214,363 97
General expenses and taxes	8,142,469 21
Total operating expenses and taxes	$66,030,872 72

The above shows an increase over 1890 of $2,105,781.18, or 3.29 per cent.

COMPARISON OF CLASSIFIED EXPENSES 1890 AND 1891.

Maintenance of Way and Buildings.

1891	19.26%		$12,715,304 49
1890	20.07%		12,832,021 60
Decrease	.81%	Decrease	$116,717 11

Maintenance of Rolling Stock.

1891	16.60%		$10,958,735 05
1890	15.16%		9,690,258 85
Increase	1.44%	Increase	$1,268,476 20

Conducting Transportation.

1891	51.81%		$34,214,363 97
1890	49.84%		31,859,841 84
Increase	1.97%	Increase	$2,354,522 13

General Expenses and Taxes.

1891	12.33%		$8,142,469 21
1890	14.93%		9,542,969 25
Decrease	2.60%	Decrease	$1,400,500 04

The expenses of operation per mile of road during this year are $4,325.24, a decrease of $25.78 over 1890. The expenses per train mile are $0 91.73, an increase of $0 13.39; the percentage of expenses to earnings is 68.94, a decrease from 1890 of .23 per cent.

OPERATING RECEIPTS OTHER THAN FROM TRAFFIC.

The receipts from operation, exclusive of traffic earnings, aggregate $904,234.84, a decrease from 1890 of $185,405.49 or 17.01 per cent.

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RECEIPTS OTHER THAN FROM OPERATING.

The receipts from sources other than operation amount to $642,392.34, a decrease from 1890 of $24,030.89.

By combining the amounts accruing from the several sources of income above set forth, it will be seen that the gross income of all companies during 1891 is $97,324,513.75, an increase for the year of $3,227,656.92; the total per mile of road operated being $6,375.07, per train mile $135.52.

The Michigan proportion of income and expenses based upon a *pro rata* mileage basis is the following:

Gross income	$36,419,052 51
Expenses and taxes	25,686,178 67
Tootal net earnings for Michigan	$10,732,873 84

For the purposes of comparison a statement of the annual earnings and expenses since 1887 is here subjoined:

Statement.

Earnings and expenses.	1887.	1888.	1889.	1890.	1891.
Total earnings	$81,556,252 85	$79,773,407 40	$87,219,726 28	$92,340,793 27	$95,777,886 57
Total earnings per mile of road	6,574 95	5,809 64	5,924 22	6,285 11	6,273 76
Total earnings per train mile	1 40.48	1 11.7	1 22.19	1 13.35	1 33.2
Total expenses	52,389,984 30	55,001,860 85	64,614,854 95	68,925,091 54	66,080,872 72
Total expenses per mile of road	4,216 34	4,002 88	4,388 01	4,351 02	4,325 24
Total expenses per train mile	90.09	86.08	93.94	78.34	91.73
Percentage of expenses to earnings	64 23	68 90	[74 08	69 17	68 94

FIXED CHARGES.

Interest.

The interest charges during the year under report are as follows:

Interest on funded debt	$16,845,573 21
Interest on floating debt	768,019 24
	$17,613,592 45
Per mile of road owned	1,332 01
Per train mile	0 24 52
Per cent of earnings	18 39

Interest and Rentals.

Total	$21,110,457 39
Per mile of road operated	1,382 80
Per train mile	0 29.39
Per cent of earnings	22 04

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Operating Expenses, Interest and Rentals.

Total	$87,141,330 11
Per mile of road operated	5,708 04
Per train mile	1 21.3
Per cent of earnings	90 98

Compared with 1890 the foregoing shows:

Total increase	$898,802 14
Per mile of road, decrease	396 24
Per train mile, increase	0 15.6
Per cent of earnings, decrease	2 36

Deficits of Earnings to Expenses.

The earnings of the following companies during the year are not sufficient to defray operating expenses:

Indiana & Lake Michigan	$7,935 54
Jefferson Avenue	778 50
Lake County	1,076 00
St. Joseph Valley	423 53
Total	$10,213 57

As will be seen by the above statement, but four companies failed to earn sufficient to pay operating expenses as against seven for the preceding year. The amount of the deficit is $10,213.57, as against $48,811.13 for 1890, a decrease of $38,597.56.

DEFICITS IN GENERAL ACCOUNTS.

Following is a list of twelve companies which failed to earn sufficient to meet operating expenses and fixed charges; debit balances aggregating $1,063,829.23 being carried forward. This amount is $1,895,966.61 less than for the preceding year and the statement shows a decrease of three in the number of companies.

Statement of Debit Balances, 1891.

Companies.	Amount.
Cincinnati, Saginaw & Mackinaw	$6,883 85
Duluth, South Shore & Atlantic	46,663 02
Frankfort & Southeastern	2,377 26
Grand Rapids & Indiana	467,377 46
Indiana & Lake Michigan	117,345 20
Jefferson Avenue	2,478 99
Manistee & Grand Rapids	11,751 84
Manistee & Northeastern	99,791 73
Saginaw, Tuscola & Huron	64,190 67
Saginaw Valley & St. Louis	113,073 13
St. Joseph Valley	28,073 85
Toledo, Saginaw & Muskegon	104,423 23
Total for twelve companies	$1,063,829 23

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DIVIDENDS.

Ten corporations pay to shareholders dividends aggregating $8,642,292.22, which is $156,465.39, or 1.84 per cent in excess of the preceding year. Upon the stock upon which these dividends are paid it is an average of 5.11 per cent, a decrease of .20 from the previous year. The stock upon which the dividend is paid constitutes 50.97 per cent of the entire amount reported. The remainder, $162,731,629.78 —49.03 per cent— yields no return.

A detailed statement showing companies paying dividends upon stock paid in, with amount and rate per cent of dividends, is subjoined:

Statement of Dividends, 1891.

Companies.	Capital stock paid in.	Amount of dividend.	Per cent of dividend.
Chicago, Detroit & C. G. T. Junction	$978,984 67	$43,800 00	4% on entire stock.
Chicago & Northwestern	66,522,820 53	3,445,804 00	6% on common, 7% on preferred.
Chicago & West Michigan	6,796,800 00	232,387 00	3½% on common.
Detroit, Bay City & Alpena	1,870,000 00	41,750 00	2⅓% on common.
Flint & Pere Marquette	9,640,200 00	253,680 00	4% on preferred.
Lake Shore & Michigan Southern	50,000,000 00	2,967,990 00	6% on common.
Michigan Central	18,738,204 00	1,080,601 22	5½% on common.
Milwaukee, Lake Shore & Western	7,650,000 00	350,000 00	7% on preferred.
Milwaukee & Northern	6,158,250 00	246,330 00	4% on common.
Pontiac, Oxford & Northern	1,000,000 00	80,000 00	8% on entire stock.
Total for ten companies	$169,155,259 20	$8,642,292 22	

DIVIDENDS AND INTEREST.

Dividends and interest upon indebtedness taken together amounts to $26,255,844.67, which for road owned is $1,985.57 per mile and 3.72 per cent of the total reported cost of property.

TRAIN MILEAGE.

The mileage of trains earning revenue during the year as compared with 1890 is as follows:

	1890.	1891.	Decrease.
Passenger trains, miles run	29,812,553	27,661,492	2,151,061
Freight trains, miles run	51,505,872	44,151,112	7,354,760
Total decrease			9,505,821

The above shows a decrease in passenger train mileage of 7.21 per cent, in freight train mileage of 14.27 per cent and in mileage of all trains earning revenue of 11.68 per cent.

Passenger Traffic.

The whole number of passengers carried during the year is 34,208,271, an increase for the year of 705,212, or 2.11 per cent, made up as follows:

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Through passengers	1,542,749
Local passengers	32,665,522
Total	34,208,271

The average distance traveled by each passenger is 33.30, a decrease of 1.96 miles from the preceding year. The average fare paid by each passenger is $0 74.28, an increase of $0 03.70 for the year. The total number of passengers carried one mile is 1,139,195,367, a decrease of 41,941,718. The following statement shows in detail the passenger business and rates of eleven of the principal corporations doing business in the State:

Statement of average passenger rates, 1891.

Companies.	Average through rate.	Average local rate.	Average rate for all.
Chicago & Grand Trunk	$0.0144	$0.0187	$0.0161
Chicago & Northwestern	.0226	.0219	.0220
Detroit, Grand Haven & Milwaukee	.0184	.0235	.0232
Flint & Pere Marquette	.0216	.0238	.0237
Grand Rapids & Indiana	.0242	.0234	.0234
Lake Shore & Michigan Southern	.0216	.0215	.0217
Michigan Central	.0204	.0231	.0234
Milwaukee, Lake Shore & Western	.0264	.0255	.0257
Duluth, South Shore & Atlantic	.0278	.0325	.0303
Detroit, Lansing & Northern	.0236	.0238	.0238
Toledo, Ann Arbor & North Michigan	.0267	.0269	.0269

Freights.

The freight movements for the year 1891 aggregate 57,852,628 tons. The apparent decrease of 5,551,229 tons, from the figures of the previous year, is due to the change in the Wabash report, which, for the year 1891, shows only the freight movements of the Detroit division. The tonnage moved is classified as follows:

Through freight	9,868,034
Local freight	47,984,594
Total	57,852,628

The total freight mileage reported is 7,770,514,581, and is divided between through and local traffic as follows:

Through freight	28.36%	2,303,564,989
Local freight	71.64%	5,466,949,592
Total		7,770,514,581

An analysis of details, compared with similar data for the previous year, discloses the following:

	1890.	1891.	Decrease.	Increase.
Average ton haul, miles	145.12	134.31	10.81	
Average amount received for each ton haul	$1.007	$1.1348		$0.1278
Average rate per ton per mile	0.00709	0.00844		0.00135

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I subjoin a statement showing the volume, and rate per mile for freight traffic, as reported by some of the more important companies doing business in Michigan.

Statement.

Companies.	Total tonnage.	Rate per ton per mile, through.	Rate per ton per mile, local.	Average rates for all.
Chicago & Grand Trunk	1,828,733	$0 00.53	$0 00.89	$0 00.61
Chicago & Northwestern	13,943,476	00.91	01.04	01.03
Detroit, Grand Haven & Milwaukee	673,441	00.42	01.85	01.23
Detroit, Lansing & Northern	626,249	00.971	01.474	01.158
Duluth, South Shore & Atlantic	2,119,881	01.162	01.84	01.528
Flint & Pere Marquette	1,817,998	00.577	01.142	00.99
Grand Rapids & Indiana	2,088,817	00.903	00.958	00.928
Lake Shore & Michigan Southern	12,019,016	00.553	00.661	00.628
Michigan Central	7,221,002	00.552	00.909	00.722
Milwaukee, Lake Shore & Western	2,961,242	00.848	01.552	01.133
Toledo, Ann Arbor & North Michigan	786,474	00.51	00.97	00.85

Tabular statement No. 12 of the compiled statistics following this report gives in detail the classification and tonnage of the various commodities moved, with the per cent that each commodity bears to the whole movement.

I append the usual statement, showing the varying percentages of the classes of freight carried for a period of five years from 1887.

Statement.

Classes of freight carried.	Per cent. 1886	Per cent. 1887	Per cent. 1888	Per cent. 1889	Per cent. 1890	Per cent. 1891	From 1890. Per cent of Increase	From 1890. Per cent of Decrease
1. Grain	12.63	9.35	9.33	8.58	9.59	9.18		.41
2. Flour	3.22	2.69	2.51	2.51	2.62	2.8	.18	
3. Provisions (beef, pork, lard, etc.)	2.97	2.55	2.15	2.44	2.49	2.16		.33
4. Animals	3.93	3.17	3.13	3.20	3.32	3.49	.17	
5. Other agricultual products	5.05	2.71	5.49	3.21	2.48	3.23	.75	
6. Lumber and forest products	19.34	22.87	20.07	22.04	20.84	21.29	.45	
7. Coal	13.77	12.84	13.74	10.90	11.65	13.19	1.54	
8. Plaster	.67	.69	.82	.97	.97	1.27	.30	
9. Salt	1.80	1.46	1.18	1.27	.82	1.08	.26	
10. Petrolium and charcoal	1.29	1.23	1.34	1.48	1.34	1.17		.17
11. Railroad iron, iron and steel rails	.82	1.34	.48	.49	.52	.25		.27
12. Pig and bloom iron	1.12	1.25	1.09	1.30	1.15	1.11		.04
13. Other iron and castings	1.97	1.87	1.72	1.94	1.63	1.77	.14	
14. Ores	12.41	14.73	15.05	19.30	19.13	16.31		2.82
15. Stone and brick	2.68	3.17	3.75	4.62	4.55	5.77	1.22	
16. Manufactures — articles shipped from point of production	5.07	3.76	4.24	3.45	3.50	3.54	.04	
17. Merchandise and other articles not enumerated above	14.86	14.38	13.90	12.30	13.40	12.39		1.01

MICHIGAN TONNAGE.

The freight forwarded from Michigan stations during 1891 is reported at 25,177,426 tons, being 39.72 per cent of the total tonnage transported.

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The following statement, continued from year to year, shows the number of tons of freight moved one mile, with the rate for each ton per mile, during the eighteen years since 1873.

STATEMENT OF TONNAGE AND RATE PER MILE SINCE 1873.

	Tons carried one mile.	Rate per mile.
1874	1,932,955,796	$0 01.37
1875	1,954,003,452	01.20
1876	2,326,961,690	00.98
1877	2,292,655,424	01.03
1878	2,858,931,229	01.05
1879	3,598,676,485	00.92
1880	4,789,420,773	00.86
1881	5,747,847,621	00.92
1882	5,781,580,167	00.97
1883	6,235,081,222	00.99
1884	6,164,447,358	00.90
1885	6,415,952,716	00.82
1886	6,475,690,954	00.89
1887	6,353,779,133	01.09
1888	6,814,787,273	00.79
1889	7,790,632,203	00.75
1890	8,997,937,524	00.709
1891	7,770,514,581	00.844

The change in the method of reporting the Wabash system here again makes the amount for 1891 show a large decrease from the figures of the preceding year—a decrease which is an apparent, not a real one.

EQUIPMENT.

The estimated value of the equipment of the railroads of the State is given as $49,482,367; per mile of road operated, $3,241.25 being decreases for the year of $1,076,175 and $199.98, respectively.

For the maintenance of motive power and cars, there was expended during the year under report the sum of $10,958,735.05, or 22.14 per cent of the estimated value of equipment. Per mile of road operated, the expenditure averaged $717.83; per train mile, 15.26 cents.

STATEMENT OF EQUIPMENT 1891.

Locomotives, all classes	3,222
Passenger cars, all classes	1,633
Baggage, mail and express cars	645
Box freight cars	57,552
Stock cars	6,412
Platform and coal cars	24,699
Ore cars	14,814
Conductors' way cars	1,711
All other cars	2,413
Total cars	109,879
Total locomotives and cars	113,101

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PERMANENT WAY.

For maintenance of way and buildings there was expended during 1891, the sum of $12,715,304.49, or 19.25 per cent of total operating expenses.

TRACK SECTIONS.

There are 1,277 track sections reported, averaging 5.69 miles each, and maintained by gangs, averaging 3.9 men to each section.

TRACK RENEWALS.

Rails.

Sixty-five thousand, five hundred and forty-seven tons of new rails, replacing 645.93 miles of track, were laid in this State during 1891, being 8.84 per cent of the total miles of road operated in this State.

Ties.

During 1891, 4,935,739 new ties were laid, 2,370,130 of which were laid within the State.

Trestles.

During the same period 6,619.30 linear feet of trestle have been replaced with earth, a further step in the betterment of road-bed.

Culverts.

There were 220 timber culverts renewed during the year, of which 47 were replaced with stone or iron pipe, 88 with sewer pipe, and 85 rebuilt with timber.

Bridges.

There are 3,105 bridge structures reported, aggregating 339,125 feet. The average for each bridge is 109.22 feet, or one to each 2.35 miles of track.

A statement of the character and extent of the bridge system is appended hereto.

Descriptive list of railroad bridges in Michigan.

Character and material of bridge.	Number.	Length, feet.
Wood	576	41,480
Stone or Iron	197	22,144
Combination	38	8,855
Trestles	2,264	262,754
Draw bridges	30	3,892
Totals	3,105	339,125

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NEW BRIDGES.

The thirty-six new bridges built during the period under report, with a total length of 9,137 linear feet, are classified as follows:

Wooden, number	29;	feet in length	3,783
Iron or stone, number	6;	" " "	349
Combination, number	1;	" " "	5,005
	36		9,137

RAILROAD CROSSINGS.

From the company reports for 1891, there appears to be 380 crossings of tracks, one by the other, or 190 intersections of railroads in this State. Of these 170 are at grade, the remaining 20 being over or under the intersecting roads.

HIGHWAY AND STREET CROSSINGS.

Of this class of crossings, there are reported for the year under report, 7,493; of these 7,282 are at grade and 211 are over or under the highways crossing them. Of the grade crossings, 495 are protected by flag-men, gates, or some form of automatic signals, while the remainder have only the protection afforded by the ordinary railroad crossing sign-board, required by law.

INTERLOCKING SWITCHES.

There are now seventy-five interlocking switches and signal systems in operation in this State. In addition to the regular daily inspections made by the employes of the companies, owning or operating them, there have been periodic inspections of these interlockers by the mechanical engineer of this department. No accidents from collisions or derailments at crossings where these appliances are in use have been reported to this department during the year. It is the rule of the crossing board, in approving maps of proposed grade crossings, to require the latter to be protected by an interlocking and derailing switch or signal system.

FENCES.

The fence report shows a total of 9,712.33 miles of fence completed, with 2,152.49 miles remaining unfenced. This shows an increase in the fenced portion, during the year, of 293.77 miles. The greater part of the unfenced portion lies in the northern part of the State.

STATIONS AND EMPLOYES.

The total number of stations reported is 3,379 of which 1,489 are in Michigan, an average of one station for each 4.9 miles of track.

The number of employes reported by the companies for the year 1891, is 66,428, of which 26,838, or 40.4 per cent, are employed in Michigan. This shows an increase of 815 over the figures for Michigan

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for 1890. The relations between the employer and the employed continue to be of a satisfactory character, the efficiency and general good conduct of the employé being especially worthy of commendation. Below is given a classification of employes upon Michigan railroads for the year under report.

Statement showing Classification of Employés on Michigan Railroads, 1891.

Classes.	Number.
Baggagemen	858
Brakemen	4,358
Conductors	2,272
Engineers	3,451
Firemen	3,643
Laborers	17,418
Shopmen	9,147
Yardmen	3,617
Others	21,669
Total	66,428

ACCIDENTS.

As will be seen by reference to tabular statement 17, the number of accidents reported by all roads is 690, a decrease of 159 from the figures of the preceding year. There is a very noticeable decrease in fatalities, there being only 175 for the year under report as against 232 for 1890.

Below is a statement showing a classification of persons killed and injured during the year:

Casualty Statement, 1891.

Persons.	No. killed	No. injured.
Passengers	5	47
Employes	52	356
Others	118	112
Total casualties	175	515

Of the total number, 167 are said to have been clearly accidental; the remainder resulting from negligence or lack of caution. Of the number responsible for their own misfortune, 140 are trespassers or tramps, 15 resulting from drunkenness.

Following is a tabulated summary of casualties for 1891:

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Casualties and Causes, 1891.

	Killed.				Injured.				1890.	
	Passengers.	Employés.	Others.	Total.	Passengers.	Employés.	Others.	Total.	Killed.	Injured.
Collisions	....	10	2	12	12	22	.....	34	6	63
Coupling cars	....	8	.....	8	....	165	.....	165	24	212
Derailments	....	1	.....	1	1	9	2	12	1	18
Falling from trains	2	12	.....	14	2	37	1	40	20	49
Frogs	....	....	....	....	....	2	.....	2	1	2
Getting on and off trains	3	4	7	14	7	21	9	37	11	45
At highway crossings	....	1	25	26	....	....	18	18	29	19
Miscellaneous causes	....	16	3	19	25	94	10	129	29	172
Overhead obstructions	....	....	....	....	....	4	.....	4	.....	3
Trespassers on trains	....	....	12	12	....	....	36	36	15	12
Trespassers on tracks	....	....	69	69	....	1	36	37	96	47
Totals	5	52	118	175	47	355	112	514	232	637

Appended is a statement of employes killed or injured on Michigan roads during the year:

Statement.

Baggagemen	3
Brakemen	190
Conductors	18
Engineers	16
Firemen	13
Laborers	36
Shopmen	7
Yardmen	95
Unclassified	29
Total	407

For full details and further information, bearing upon the subject of accidents, your attention is respectfully directed to tabular statements 17 A, B, and C of this report.

TAXATION.

The total taxes, due from corporations sharing in the railroad business of this State during the year ending December 31, 1891 and payable July 1, 1892, amount to the sum of $854,334.12, an increase of $41,334.49, or 5.08 per cent upon the figures for 1890. This increase must be almost wholly attributed to the effect of Act No. 174 of the Public Acts of 1891. In 1890, upon an increase in earnings of $1,822,829.12 over those of the previous year, the increase in taxes was $55,764.69. In 1891, upon an increase in earnings of only $206,651.70 over those of 1890, the increase in taxes is, as stated, $41,334.49.

The distribution of the taxes for 1891 between the two classes of roads is as follows:

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Special charter roads	$220,932 20
Roads organized under the general law	633,401 92
Total	$854,334 12

The taxes upon special charter roads, computed and assessed by the Auditor General upon capital stock paid in, are distributed as follows:

Detroit, Grand Haven & Milwaukee	$25,171 40
Grand River Valley	14,934 00
Lake Shore & Michigan Southern	46,743 60
Michigan Central	134,083 20
Total	$220,932 20

This amount is 25.86 per cent of the total tax; the roads, assessed under the general law upon their gross earnings and certified to the Auditor General by this department, paid the remaining 74.14 per cent.

The following analysis shows the figures in detail:

Average number of miles of road operated in Michigan	7,306 89
Taxable earnings as reported for Michigan	$36,570,389 41
Taxable earnings per mile of road operated in Michigan	5,005 05
Per cent of taxation on taxable income	2 33

MAP OF MICHIGAN.

Since my last report, the plate from which the State railroad maps are printed has been corrected under the direction of this department. From this plate, a new edition has been printed, showing all changes in county and township boundaries, as well as recent changes in names, together with all new lines of railroad, projected up to the date of publication. This map has been found of great utility and value.

Conclusion.

I desire to express my high appreciation of the ready response and obedience to the orders of this department on the part of the railroad companies doing business in this State, and my thanks to the officials of these companies for the courtesy which I have always received at their hands. My thanks are also due to those with whom I have been associated in this office for the intelligent and faithful aid which has been generously awarded to me; and especially my thanks are due to your Excellency for the able counsel and never failing support which your wisdom, your experience, and your kindness has given to my official life. I am

Very respectfully yours,

Chas. R. Whitman.

Commissioner of Railroads.

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APPENDIX.

TWENTIETH ANNUAL REPORT

OF THE

COMMISSIONER OF RAILROADS

OF THE

STATE OF MICHIGAN.

1892.

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APPENDIX.

STATEMENT.

Of new railroad corporations formed and reorganizations, amendments of old charters and miscellaneous changes since date of the last report from the Commissioner of Railroads, as shown by returns from the office of the Secretary of State, November 2, 1892.

NEW CORPORATIONS.

CHICAGO, LAKE MICHIGAN & EASTERN RAILWAY COMPANY.
Termini, St. Joseph township and State Line.
Proposed length, 60 miles.
Capital stock, $500,000.
Articles filed, September 7, 1891.

CRYSTAL LAKE RAILROAD COMPANY.
Termini, Montcalm county.
Proposed length, 7 miles.
Capital stock, $75,000.
Articles filed, November 16, 1891.,

DETROIT TRANSIT RAILROAD COMPANY.
Termini, Detroit.
Proposed length, 24 miles.
Capital stock, $200,000.
Articles filed, April 4, 1892.

DETROIT BELT RAILROAD COMPANY.
Termini, Wayne county.
Proposed length, 20 miles.
Capital stock, $2,000,000.
Articles filed, November 2, 1892.

GRAND RIVER RAILROAD COMPANY.
Termini, Grand Rapids, Grand Haven and Grass Lake.
Proposed length, 45 miles.
Capital stock, $500,000.
Articles filed, February 19, 1892.

LAKE HARBOR RAILROAD COMPANY.
Termini, Lake Michigan and township of Norton, Muskegon county.
Proposed length, 5 miles.
Capital stock, $50,000.
Articles filed, August 1, 1892.

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OSCEOLA, LAKE & WEXFORD RAILROAD COMPANY.
Termini, Ogla and Hoxeyville.
Proposed length, 10 miles.
Capital stock, $80,000.
Articles filed, May 21, 1892.

PERE MARQUETTE & BIG RAPIDS RAILROAD COMPANY.
Termini, Ludington and Big Rapids.
Proposed length, 45 miles.
Capital stock, $360,000.
Articles filed, June 10, 1892.

RAPID RIVER & EASTERN RAILROAD COMPANY.
Termini, Torch Lake and Kalkaska.
Proposed length, 15 miles.
Capital stock, $120,000.
Articles filed, August 16, 1892.

AMENDMENTS.

MANISTEE & NORTHEASTERN RAILROAD COMPANY.
Capital increased from $600,000 to $2,000,000.
Filed, August 29, 1892.

DETROIT & ST. CLAIR RIVER RAILWAY COMPANY.
Reducing number of directors.
Filed, September 8, 1892.

CHICAGO & WEST MICHIGAN RAILWAY COMPANY.
Capital increased to $7,525,000.
Filed, September 3, 1892.

CONSOLIDATIONS.

CINCINNATI, JACKSON & MACKINAW RAILWAY COMPANY.
Formed by consolidation of the Michigan & Mackinaw Railroad Company and the Cincinnati & Michigan Railroad Company.
Capital stock, $16,300,000.
Articles filed, March 9, 1892.

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CIRCULAR

ISSUED BY THE COMMISSIONER OF RAILROADS TO RAILROAD MANAGERS AND EMPLOYES DURING THE YEAR ENDING NOVEMBER 2, 1892.

STATE OF MICHIGAN,
OFFICE OF THE COMMISSIONER OF RAILROADS,
Lansing, February 4, 1892.

To General Managers and Superintendents of Railroad Companies, and Superintendents of Street Railway Companies doing business in the State of Michigan:

By the provisions of Act No. 222, Session Laws of 1889, street railway companies must require the drivers of street cars to bring such cars to a full stop before going upon a street railway crossing of the tracks of a steam railroad, and to make sure that no engine or cars are approaching such crossing before they proceed to go upon the same.

There has been a general compliance with the first clause of this statute, but, in many instances, drivers of street cars erroneously consider their duty fully performed by making a full stop before going upon a street railway crossing of the tracks of a steam railroad. It is of vital importance, in the interest of public safety, that street railway companies shall obey strictly the provisions of this statute which requires that the driver of a street car shall "*make sure that no engine or cars are approaching such crossing before he proceeds to go upon the same.*" This statute is applicable even where gates or flag-men are located. Gate tenders and flag-men may make mistakes. Drivers of street cars are required to observe for themselves. This may afford a two-fold protection, but none too much where human life is at stake. A strict compliance with this law is earnestly solicited.

Very respectfully yours,
CHAS. R. WHITMAN,
Commissioner of Railroads.

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OFFICIAL ORDERS

ISSUED BY THE COMMISSIONER OF RAILROADS OF THE STATE OF MICHIGAN FROM OCTOBER 21, 1891, TO NOVEMBER 1, 1892.

1891.

1. Oct. 21. To the Chicago & North Michigan Railroad Company and the Grand Rapids & Indiana Railroad Company, lessee of the Traverse City Railroad.
Special order approving interlocker at the crossing of the roads at Traverse City.

2. Nov. 15. To John M. Whitman, general manager of the Chicago & Northwestern Railway.
Special order to station flag-man at the Stephenson avenue and wagon road crossings in the city of Escanaba.

3. Nov. 27. To the general managers of the Michigan Central Railroad, Lake Shore & Michigan Southern Railway and the Chicago, Detroit & Canada Grand Trunk Junction Railway Company.
Special order requiring the placing of safety gates at Cass avenue crossing in the city of Detroit.

4. Nov. 28. To William J. Spicer, general manager of the Chicago & Grand Trunk Railway Company.
Special order requiring the placing of an alarm bell at the third crossing west of the village of Perry.

5. Dec. 2. To H. B. Ledyard, general manager of the Michigan Central Railroad, and O. W. Hughart, general manager of the Grand Rapids & Indiana Railroad.
Special order to station flagman at the crossing of Fifth avenue in the city of Grand Rapids.

6. Dec. 2. To Charles M. Heald, general manager of the Grand Rapids, Lansing & Detroit Railroad.
Special order to station flagman at the crossing of Fifth avenue in the city of Grand Rapids.
7. Dec. 2. To Charles M. Heald, general manager of the Detroit, Lansing & Northern Railroad.
Special order to place gates at the crossings of East and Walnut streets in the village of Howell.

8. Dec. 16. To H. B. Ledyard, general manager of the Michigan Central Railroad; John Newell, general manager of the Lake Shore & Michigan Southern Railway; and W. J. Spicer, general manager of the Grand Trunk Railway.
Special order approving interlocker at Woodard avenue crossing, Detroit.

9. Dec. 23. To John Newell, general manager of the Lake Shore & Michigan Southern Railway.
Special order to place signal bell at Reed street crossing in the city of Kalamazoo.

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10. Dec. 23. To H. B. Ledyard, general manager of the Michigan Central Railroad, and John Newell, general manager of the Lake Shore & Michigan Southern Railway.
Special order to place safety gates at the crossing of Oak street in the city of Wyandotte.

11. Dec. 23. To Charles M. Heald, general manager of the Detroit, Lansing & Northern Railroad.
Special order to reduce speed of trains at first street crossing east of interlocker in the city of Greenville.

12. Dec. 26. To H. B. Ledyard, general manager of the Michigan Central Railroad; John Newell, general manager of the Lake Shore & Michigan Southern Railway; and W. J. Spicer, general manager of the Grand Trunk Railway.
Special order permitting increased speed of trains at interlocker near Woodward avenue, Detroit.

1892.

13. Jan. 8. To the general managers of the Lake Shore & Michigan Southern Railway and the Wabash Railroad.
Special order approving interlocker at the crossing of the two roads in the city of Adrian.

14. Jan. 8. To Harry W. Ashley, general manager of the Toledo, Ann Arbor & North Michigan Railway.
Special order to station a flagman at Liberty street, in the city of Ann Arbor.

15. Jan. 8. To Harry W. Ashley, general manager of the Toledo, Ann Arbor & North Michigan Railway.
Special order to place gates at the crossings of Miller avenue and Washington street in the city of Ann Arbor.

16. Jan. 8. To Harry W. Ashley, general manager of the Toledo, Ann Arbor & North Michigan Railway.
Special order to place alarm bells at crossings of South Main and Pontiac streets in the city of Ann Arbor.

17. Jan. 9. To H. B. Ledyard, general manager of the Michigan Central Railroad.
Special order to place alarm bell at crossing of Academy street, in the city of Kalamazoo.

18. Jan. 18. To R. A. Alger, general manager of the Detroit, Bay City & Alpena Railroad, and George A. Loud, general manager of the Au Sable & Northwestern Railroad.
Special order approving interlocker at the crossing of the two roads in the village of Au Sable.

19. Feb. 17. To Robert Miller, general superintendent Michigan Central Railroad.
Special order modifying order of July 22, 1891, in regard to the hours of flagmen at Main street crossing in the village of Galien.

20. Feb. 24. To H. B. Ledyard, president and general manager of the Michigan Central Railroad, and to Hon. Hazen S. Pingree, mayor of the city of Detroit.
Special order regarding the construction of overhead bridges at Lafayette avenue and other streets in the city of Detroit.

21. March 2. To William J. Spicer, general manager of the Chicago & Grand Trunk Railway.
Special order requiring the placing of an electric alarm bell signal at Kendall street crossing in the city of Battle Creek.

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22. March 4. To William F. Fitch, general manager of the Duluth, South Shore & Atlantic Railway.
Special order requiring farm crossing for C. C. Brown, in T. 47 N., R. 20 W., in Alger county.

23. March 15. To H. B. Ledyard, president of the Michigan Central Railroad Company.
Special order for flagman at Main street crossing in the village of Lawton.

24. March 15. To H. B. Ledyard, president of the Michigan Central Railroad Company.
Special order for flagman at George street crossing in the village of Decatur.

25. March 17. To H. B. Ledyard, president of the Michigan Central Railroad Company, and F. B. Drake, general manager of the Cincinnati, Jackson & Mackinaw Railroad Company.
Special order to place gates at Kendall street, in the city of Battle Creek.

26. April 20. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railroad.
Special order for flagman at Chicago street, in the village of Sturgis.

27. April 20. To John Newell, president of the Lake Shore & Michigan Southern Railway Company.
Special order to flag all trains at Chicago street crossing, in the village of Sturgis.

28. April 30. To Charles M. Heald, general manager of the Chicago & West Michigan Railway.
Special order to erect electric alarm bell at crossing of the Grand Haven road, in Wyoming township, Kent county.

29. April 30. To Charles M. Heald, general manager of the Chicago & West Michigan Railway.
Special order for flagman at Main street crossing, in the village of Jennison, Ottawa county.

30. April 30. To H. B. Ledyard, president of the Michigan Central Railroad Company.
Special order (modifying order of Oct. 1, 1890) substituting flagman for gates at Lake street crossing, in the village of Grass Lake.

31. June 2. To Charles M. Heald, general manager of the Chicago & West Michigan Railway.
Special order for flagman at River street crossing in the city of Holland.

32. June 9. To Charles M. Heald, general manager of the Grand Rapids, Lansing & Detroit Railroad.
Special order for flagman at Division street crossing in the city of Grand Rapids.

33. June 13. To Milo Eastman, general superintendent of the Detroit, Bay City & Alpena Railroad.
Special order to flag all trains at Washington avenue and Chisholm street crossings in the city of Alpena.

34. June 13. To W. J. Spicer, general manager of the Detroit, Grand Haven & Milwaukee Railway.
Special order to provide farm crossing for Mr. H. Palmer, Gaines Station, Vernon township, Genesee county.

35. June 28. To W. J. Spicer, general manager of the Detroit, Grand Haven & Milwaukee Railway.
Special order for flagman at Bridge street crossing in the village of Saranac.

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36. June 29. To Robert Miller, general superintendent of the Michigan Central Railroad.
Special order (modifying order of April 30, 1892) changing hours of flagman at Lake street crossing, Grass Lake.

37. August 5. To H. W. Ashley, general manager of the Toledo, Ann Arbor & North Michigan Railway.
Special order to repair farm crossing of Heman Calhoun, Milan, Washtenaw county.

38. Oct. 13. To W. J. Spicer, general manager of the Cincinnati, Saginaw & Mackinaw Railroad.
Special order for an electric bell at Sherman and Maple streets, Carrolton, Michigan.

39. Oct. 13. To H. B. Ledyard, president of the Michigan Central Railroad Co.
Special order for an electric alarm bell signal at the crossing of Maple and Sherman streets, Carrolton, Michigan.

40. Oct. 26. To Charles M. Heald, general manager of the Chicago & West Michigan Railway.
Special order for a flagman at the crossing of Ninth street in Muskegon.

41. Oct. 26. To W. J. Spicer, general manager of the Toledo, Saginaw & Muskegon Railroad.
Special order for a flagman at crossing by the T. S. & M. of Ninth street, Muskegon.

42. Oct. 26. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railroad.
Special order for a flagman at crossing by the G. R. & I. of Houston avenue, Muskegon.

43. Oct. 26. To W. J. Spicer, general manager of the Toledo, Saginaw & Muskegon Railway.
Special order for a flagman at crossing by the T. S. & M. of Houston avenue, Muskegon.

44. Oct. 26. To General Managers of the Wabash, the Lake Shore & Michigan Southern and the Michigan Central Railroads.
Special order approving interlocking system at Delray, Michigan.

EXPENSE ACCOUNT

Of the Department from October 1, 1891 to September 30, 1892.

Express charges, distribution of books and blanks	$278 45
Incidentals	67 18
Maps of Michigan	293 10
Office, library, books, reports and journals	91 51
Postage	53 00
Printing and binding	1,370 48
Stationery and paper for blanks	96 91
Telegraph and telephone	88 04
Traveling expenses	549 14
Total	$2,887 81

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REPORTS OF

RAILROAD COMPANIES

1891.

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ANNUAL REPORT

OF THE

CHICAGO & NORTHWESTERN RAILWAY COMPANY.

For the year ending December 31, 1891.

[Filed March 11, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Chairman of the Board, ALBERT KEEP, Chicago, Illinois.
President, MARVIN HUGHITT, Chicago, Illinois.
Vice President, M. L. SYKES, New York, N. Y.
Secretary, M. L. SYKES, New York, N. Y.
Auditor, J. B. REDFIELD, Chicago, Illinois.
Treasurer, M. L. SYKES, New York, N. Y.
General Manager, J. M. WHITMAN, Chicago, Illinois.
General Superintendent, S. SANBORN, Chicago, Illinois.
Assistant General Superintendent, PETER HALLENBECK, Winona, Minn.
Division Superintendent, Michigan Lines, W. B. LINSLEY, Escanaba, Mich.
Chief Engineer, JOHN E. BLUNT, Chicago, Illinois.
Superintendent of Telegraph, G. H. THAYER, Chicago, Illinois.
Second Vice President, M. M. KIRKMAN, Chicago, Illinois.
General Passenger and Ticket Agent, W. A. THRALL, Chicago, Illinois.
General Freight Agent, H. R. McCOLLOUGH, Chicago, Illinois.
General Counsel, W. C. GOUDY, Chicago, Illinois.

DIRECTORS.

HORACE WILLIAMS, Clinton, Iowa.
FREDERICK L. AMES, Boston, Mass.
JOHN M. BURKE, New York, N. Y.
MARVIN HUGHITT, Chicago, Illinois.
N. K. FAIRBANK, Chicago, Illinois.
Terms expire June, 1892.
W. L. SCOTT (died Sept. 19, 1891), Erie, Pa.
PERCY R. PYNE, New York, N. Y.
F. W. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
H. McK. TWOMBLY, New York, N. Y.
JOHN I. BLAIR, Blairstown, N. J.
Terms expire June, 1893.
JAMES C. FARGO, New York, N. Y.
DAVID P. KIMBALL, Boston, Mass.
CHAUNCEY M. DEPEW, New York, N. Y.
SAMUEL F. BARGER, New York, N. Y.
ALBERT KEEP, Chicago, Illinois.
M. L. SYKES, New York, N. Y.
Terms expire June, 1894.

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STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed—June 7, 1859.	
Number of stockholders at date of last election	3,555
Number of stockholders in Michigan at same date	9
Amount of full paid stock held in Michigan at same date	$96,000 00
Date of annual meeting of stockholders—First Thursday in June.	
Fiscal year of company ends May 31.	
General offices of the company are located at Chicago, Illinois.	

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$29,395,791 28
Total expenses, including taxes		$19,122,634 92	
Net income			$10,273,156 36
Interest on funded and unfunded debt		$5,728,598 10	
Sinking funds		410,425 00	
Balance applicable to dividends			$4,134,133 26
Dividends declared:			
6 per cent on common	$1,882,494 00		
7 per cent on preferred	1,562,310 00		
		$3,445,804 00	
Balance for the year			$688,329 26
Balance (profit and loss) last year			6,823,526 52
Balance forward to next year			$7,511,855 78

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association—No fixed amount.		
Par value of shares		$100 00
Common stock outstanding (including stock of proprietary railroads)	$44,137,365 97	
Preferred stock outstanding	22,385,454 56	
Total amount outstanding (including stock of proprietary railroads) as per books of the company		$66,522,820 53
Paid in per mile of road (miles, 4,278.07)		$15,567 92

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Name of bond.	Date of issue.	When due.	Interest.		Amount.
			Rate.	Payable.*	
C. I. & N. R. R.	Aug. 15, 1862.	Aug. 15, 1892.	7%	Feb. 15 and Aug. 15	$129,000
C. R. & M. R. 2d division	Aug. 1, 1863.	Feb. 1, 1894.	7%	Feb. 1 and Aug. 1	582,000
Maple River, 1st mortgage	July 1, 1877.	July 1, 1897.	7%	Jan. 1 and July 1	402,500
Chicago & Milwaukee R'y, 1st m't'g.	July 1, 1868.	July 1, 1898.	7%	Jan. 1 and July 1	1,700,000
Peninsula R. R., 1st mortgage	July 1, 1863.	Sept. 1, 1898.	7%	Mar. 1 and Sept. 1	132,000
Iowa Midland, 1st mortgage	Aug. 1, 1870.	Oct. 1, 1900.	8%	April 1 and Oct. 1	1,350,000
Escanaba & Lake Superior, 1st m't'g.	July 1, 1881.	July 1, 1901.	6%	Jan. 1 and July 1	720,000
C. & N. W. R'y, Iowa division	Apr. 1, 1591.	April 1, 1902.	4½%	April 1 and Oct. 1	700,000
General Consol. gold	Nov. 80, 1872.	Dec. 1, 1902.	7%	June 1 and Dec. 1	12,336,000
Milwaukee & Madison, 1st mortgage.	Sept. 1, 1880.	Sept. 1, 1905.	6%	Mar. 1 and Sept. 1	1,600,000
Chicago & Tomah, 1st mortgage	Sept. 1, 1880.	Nov. 1, 1905.	6%	May 1 and Nov. 1	1,528,000
C., M. & N.W., construction	May 1, 1882.	Nov. 1, 1905.	6%	May 1 and Nov. 1	750,000
Menominee River R. R., 1st mortgage.	July 1, 1876.	July 1, 1906.	7%	Jan. 1 and July 1	400,000
Menominee River Ext., 1st mortgage.	Jan. 1, 1880.	July 1, 1906.	7%	Jan. 1 and July 1	160,000
Des Moines & Minn., 1st mortgage	Feb. 1, 1882.	Feb. 1, 1907.	7%	Feb. 1 and Aug. 1	600.000
Dakota Central (W. & St. P. cons.)	May 1, 1882.	Sept. 1, 1907.	6%	Mar. 1 and Sept. 1	1,065,000
W. & St. P. R. R., 2d mortgage	Nov. 1, 1867.	Nov. 1, 1907.	7%	May 1 and Nov. 1	1,592,000
Dakota Central (Southeastern div.)	Nov. 1, 1882.	Nov. 1, 1907.	6%	May 1 and Nov. 1	2,000,000
R. & No. M. R'y, 1st mortgage	Sept. 1, 1878.	Sept. 1, 1908.	7%	Mar. 1 and Sept. 1	200,000
Plainview, 1st mortgage	Sept. 1, 1878.	Sept. 1, 1908.	7%	Mar. 1 and Sept. 1	100,000
Minnesota Valley, 1st mortgage	Oct. 1, 1878.	Oct. 1, 1908.	7%	April 1 and Oct. 1	150,000
Ott., C. F. & St. P., 1st mortgage	Mar. 1, 1884.	Mar. 1, 1909.	5%	Mar, 1 and Sept. 1	1,600,000
C. R. & M., R. of 1884	June 1, 1884.	June 1, 1909.	7%	June 1 and Dec. 1	769,000
Debentures of 1909	July 1, 1884.	Nov. 1, 1909.	5%	May 1 and Nov. 1	4,000,000
Northern Illinois, 1st mortgage	April 1, 1885.	Mar. 1, 1910.	5%	Mar. 1 and Sept. 1	1,500,000
Madison Extension	April 1, 1871.	April 1, 1911.	7%	April 1 and Oct. 1	3,150,000
Menominee Extension	June 1, 1871.	June 1, 1911.	7%	June 1 and Dec. 1	2,697,000
Consol. Sinking Fund Co.	Jan. 16, 1865.	Feb. 1, 1915.	7%	Feb. 1 and Mar. 1 / Aug. 1 and Nov. 1	12,768,000
C. R. & M. R. R., 3d division	May 1, 1866.	May 1, 1916.	7%	May 1 and Nov. 1	2,332,000
W. & St. P. R. R. Extension	Dec. 1, 1871.	Dec. 1, 1916.	7%	June 1 and Dec. 1	4,241,000
Northwestern Union R'y 1st mortgage	June 1, 1872.	June 1, 1917.	7%	Mar. 1 and Sept. 1	3,500,000
Debentures of 1921	Feb. 28, 1891.	Apr. 15, 1921.	5%	Apr. 15 and Oct. 15	5,000,000
4% Extension Bonds of 1886	Apr. 15, 1886.	Aug. 15, 1926.	4%	Feb. 15 and Aug. 15	18,632,000
Consol. S. F. Bonds of 1879, 6%	Oct. 1, 1879.	Oct. 1, 1929.	6%	Apr. 1 and Oct. 1	6,305,000
Consol. S. F. Bonds of 1879, 5%	Oct. 1, 1879.	Oct. 1, 1929.	5%	Apr. 1 and Oct. 1	7,745,000
Debentures of 1933	May 1, 1883.	May 1, 1933.	5%	May 1 and Nov. 1	9,800,000
Total funded debt					$112,235,500

* Payable at New York.

UNFUNDED DEBT.

For current balances (will probably be paid in cash)	$5,202,318 69
Total unfunded debt	$5,202,318 69

RECAPITULATION.

Total funded debt	$112,235,500 00	
Total unfunded debt	5,202,318 69	
Total debt liabilities		$117,437,818 69
Amount of debt liabilities per mile of road (4,273.07 miles)		$27,483 24
Total amount of stock and debt		$183,960,639 22
Stock and debt per mile of road (4,273.07 miles)		$43,051 16

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GENERAL BALANCE SHEET.—Dr.

Construction account (including proprietary lines)		$132,341,603 18
Equipment account (including proprietary lines)		23,761,908 49
Other investments:		
Consolidated sinking fund currency bond on hand	$1,000 00	
Bonds of other companies owned	1,319,752 67	
Land grant investments	414,625 00	
Bonds of F. E. & M. V. and Wyoming Central R'y, held as collateral for C. & N.W. R'y extension bonds of 1886	13,235,000 00	
Cost stocks of proprietary companies	287,500 00	
Cost stock of M. V. & B. R'y & Bridge Company	37,000 00	
Cost stock of Sioux City & Pacific R. R. Company	23,273 50	
Cost stock of Sioux City Bridge Company	2,400 00	
Cost stock of Chicago Union Transfer R'y Company	40,000 00	
Cost stock of F. E. & M. V. R. R. Company	1,981,500 00	
Cost stock of M., L. S. & W. R'y Company	109,212 50	
Cost stock of C., St. P., M. & O. R'y Company	10,000,000 00	
		27,401,263 67
Cash items:		
Cash	$2,756,648 51	
Bills receivable	102,326 59	
Due from agents	1,349,688 45	
		4,208,663 55
Other assets:		
Materials and supplies	$1,587,444 46	
Debit balances from companies and individuals	474,102 36	
		2,061,546 82
Total		$194,774,985 71

GENERAL BALANCE SHEET.—Cr.

Capital stock, including stock of proprietary companies		$66,532,820 53
Funded debt		112,235,500 00
Unfunded debt:		
Interest unpaid, including accruing interest not yet due	$1,658,065 81	
Dividends unpaid	47,425 50	
Vouchers and accounts	3,496,827 38	
		5,202,318 69
Other liabilities:		
Land income account	$2,835,931 57	
Income account, Consolidation Coal Company	131,559 14	
Railroad income account, bonds redeemed and canceled	335,000 00	
		3,302,490 71
Profit and loss or income accounts		7,511,855 78
Total		$194,774,985 71

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built and acquired by company, including cost of proprietary lines embraced in this report.

Total expended for construction and equipment		$161,108,511 67
Average cost per mile of road (4,273.07 miles)	$37,702 05	
Proportion of cost for Michigan		$14,950,749 09

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE AND BRANCHES.

Lands, extensions and new sidings	$1,198,130 78
Second track	790,518 48
New buildings and bridges	521,271 33
New fences and road crossings	49,619 61
Machinery and tools	6,225 00
New locomotives	393,490 59
New cars	295,094 93
Total	$3,254,350 72
Total charges to property account as above	$3,254,350 72
Less—credited to property account bonds redeemed and canceled	272,000 00
Net addition to property account	$2,982,350 72

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$6,628,863 73	
Through fares	497,793 86	
Total passenger fares	$7,126,657 59	
Express	418,490 28	
Mails	630,697 73	
Total passenger department earnings		$8,175,845 55
Proportion for Michigan (on basis of miles)	$758,735 89	
Per train mile	1 08.64	
Per mile of road	1,913 34	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$19,621,717 84	
Through traffic	1,345,540 15	
Total freight department earnings		$20,967,257 99
Proportion for Michigan (on basis of miles)	$1,945,806 21	
Per train mile	1 42.10	
Per mile of road	4,906 84	
Total transportation earnings		$29,143,103 54
Transportation earnings per mile of road	$6,820 18	
Transportation earnings per train mile	1 30.79	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From rentals of tracks or terminals	$27,784 82	
From other sources	224,903 92	
Total		252,687 74
Proportion for Michigan	$23,449 96	
Total earnings from operation of road		$29,395,791 28
Total earnings per mile of road	$6,879 31	
Total earnings per train mile	1 31.93	
Proportion of earnings for Michigan (on basis of miles)	2,727,993 06	
Total proportional earnings per mile of road in Michigan	6,879 31	
Income other than from earnings:		
Receipts from investments included (as credits) in interest on funded and unfunded debt.		
Total income from all sources		$29,395,791 28
Proportion of income for Michigan (on basis of miles)		$2,727,993 06

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,836,745 71
Renewals of rails	183,869 26
Renewals of ties	528,318 74
Repairs of bridges, including culverts and cattle guards	390,451 17
Repairs of fences, road crossings, and signs	122,764 49
Repairs of buildings	474,219 10
Total	$3,531,378 57

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$1,165,041 77
Repairs of passenger cars	355,883 63
Repairs of freight cars	1,582,951 53
Total	$3,103,876 93

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,099,223 04
Water supply	119,944 34
Oil and waste	197,740 60
Locomotive service	2,051,737 06
Passenger train service	479,499 12
Passenger train supplies	103,968 99
Mileage of passenger cars	36,121 75
Freight train service	1,171,446 06
Freight train supplies	34,946 05
Mileage of freight cars	239,859 53
Telegraph expenses (maintenance and operating)	395,622 52
Damage and loss of freight and baggage	89,444 45
Damages to property and cattle	33,184 48
Personal injuries	270,353 69
Agents and station service	2,706,390 50
Station supplies	87,133 10
Total	$10,145,605 28

GENERAL EXPENSES.

Salaries of the general officers of the company	$171,723 19
Salaries of clerks in general offices	208,131 24
Law expenses	126,860 55
Insurance	2,991 09
Stationery and printing	172,753 96
Outside agencies and advertising	294,344 59
Contingencies	410,028 29
Taxes	859,951 23
Total	$2,241,774 14

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	18.47	$3,531,378 57
Maintenance of motive power and cars	16.23	3,103,876 93
Conducting transportation	53.05	10,145,605 28
General expenses, including taxes	12.25	2,241,774 14
Total operating expenses and taxes	100.00	$19,122,634 92
Operating expenses and taxes per mile of road		$4,475 15
Operating expenses and taxes per train mile run, for trains earning revenue (miles 22,280,943)		85.82
Proportion of operating expenses and taxes for Michigan		1,774,621 26
Percentage of expenses and taxes to earnings (65.05)		
Net earnings per mile of road		2,404 16
Net earnings per train mile		46.11

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

Termini.	When built.	Miles.
Escanaba to Negaunee	In 1864	62.00
Negaunee to Junction beyond Ishpening	In 1864	4.58
Marinette to Escanaba	In 1872	64.65
Powers to Quinnesec	In 1877	24.71
Quinnesec to Menominee River	In 1880	8.18
Second crossing of Menominee River to Crystal Falls	In 1883	12.20
Iron River Junction to Stambaugh	In 1882	19.50
Narenta to Metropolitan	In 1882	34.86
Iron River to Watersmeet	In 1887	25.16
Junction near Ishpeming to Republic	In 1888	21.96
Clowry to Michigamme	In 1888	10.44
Wabic to Champion	In 1888	1.23
Branches to mines:		
Off main line	At various dates	42.27
Off Menominee River Railroad line	At various dates	31.42
Off Escanaba & Lake Superior line	At various dates	8.44
Crystal Falls to Hemlock mine	In 1891	15.00
Total		396.55

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MAIN LINE OR CONSOLIDATED ROAD.

Road Belonging to the Chicago & Northwestern Railway Company.

Divisions.	Total.	Illinois.	Iowa.	Wisconsin.	Michigan.	Minnesota.	South Dakota.	North Dakota.
Lines chartered as or consolidated with Chicago & Northwestern R'y Co.								
Chicago to Council Bluffs	491.00	137.88	353.12					
Chicago to Freeport	121.00	121.00						
Geneva to Aurora	9.40	9.40						
Geneva to St. Charles	2.40	2.40						
Sycamore to Cortland	4.64	4.64						
Elgin to Williams' Bay	51.04	35.82		15.22				
Belvidere to Spring Valley	75.78	75.78						
South Branch J't'n to River (Chicago)	4.50	4.50						
Clinton to Ana[illegible] (Quarry)	73.57		73.57					
Stanwood to Tipton	8.50		8.50					
Cut off near Cedar Rapids	5.96		5.96					
Des Moines to Jewell Junction	59.09		59.09					
Tama to Elmore	164.56		164.22			.34		
Jewell J't'n to Wall Lake J't'n	73.68		73.68					
Eagle Grove to Hawarden	145.20		145.20					
Belle Plaine to Muchakinock	64.00		64.00					
Boone to Coal Banks	3.25		3.25					
Maple River Junction to Onawa	80.85		80.85					
Wall Lake to Moville	79.87		79.87					
Carroll to Kirkman	34.81		34.81					
Manning to Audubon	17.00		17.00					
Chicago to Ft. Howard	242.20	69.73		172.47				
Appleton Water Power Extension	3.68			3.68				
Kenosha to Rockford	72.10	44.03		28.07				
Chicago to Montrose	5.20	5.20						
Montrose to North Evanston	7.69	7.69						
Chicago to Milwaukee	85.00	44.60		40.40				
Milwaukee to Fon du Lac	62.63			62.63				
Sheboygan to Princeton	78.40			78.40				
Milwaukee to Montfort	140.88			140.88				
Montfort to Galena	46.34	10.30		36.04				
Montfort to Woodman	30.50			30.50				
Ipswich to Platteville	4.00			4.00				
Lancaster Junction to Lancaster	12.04			12.04				
Janesville to Afton	6.10			6.10				
Belvidere to Winona	227.00	21.00		205.87		.13		
Winona Junction to La Crosse	3.96			3.96				
Trempealeau to Galesville	6.71			6.71				
Evansville to Janesville	15.68			15.68				
Ft. Howard to Republic	202.64			49.45	153.19			
Clowry to Michigamme	10.44				10.44			
Wabic to Champion	1.23				1.23			
Powers to Watersmeet	104.33			13.73	90.60			
Stager to Crystal Falls	9.10				9.10			
Narenta to Metropolitan	34.86				34.86			
Branches to mines:								
Off main line	42.27				42.27			
Off Escanaba & Lake Superior line	8.44				8.44			
Off Menominee River line	36.13			4.71	31.42			
Crystal Falls to Hemlock mine	15.00				15.00			
Total	3,084.60	593.97	1,163.12	930 49	396.55	.47		

	Miles.
Total length of road belonging to this company	3,084.60
Total length of road belonging to this company in Michigan	396.55
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, approximate	113.73
Aggregate length of tracks in Michigan belonging to this company, computed as single track, approximate	510.28

Gauge of track in Michigan, 4 feet 8½ inches.

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Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:

Proprietary lines.	Total.	Illinois.	Iowa.	Wisconsin.	Michigan.	Minnesota.	South Dakota.	North Dakota.
Princeton & Western R'y	16.06							
Valley Junction to Necedah				16.06				
Winona & St. Peter R. R.	448.48							
Winona to Watertown						288.50	34.48	
Mankato Junction to Mankato						3.75		
Sleepy Eye to Redwood Falls						24.40		
Rochester to Zumbrota						24.48		
Eyota to Plainview						15.01		
Eyota to Chatfield						11.46		
Tracy to Dakota line						46.40		
Dakota Central R'y	723.93							
Minnesota state line to Pierre							209.11	
James Valley Junction to Oakes							117.67	14.28
Watertown to Gettysburg							146.25	
Watertown Junction to Watertown							43.83	
Iroquois to Hawarden (state line)							125.49	
Centerville to Yankton							28.46	
Doland to Groton							38.84	
Total	1,188.47			16.06		414.00	744.13	14.28
Recapitulation.								
C. & N.W. R'y (chart'd or consolidated)	3,084.60	593.97	1,163.12	930.49	396.55	.47		
Proprietary lines	1,188.47			16.06		414.00	744.13	14.28
Total	4,273.07	593.97	1,163.12	946.55	396.55	414.47	744.13	14.28

	Total Miles.	In Michigan.
Total	1,188.47	
Total miles operated by the company	4,273.07	396.55

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	28	3,210
Stone	2	25
Iron	7	818
Combination	2	353
Wooden trestles	307	26,341
Total	346	30,747

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Milwaukee & Northern R. R. at Menominee (3 crossings).
Milwaukee & Northern R. R. at Antoine.
Milwaukee & Northern R. R. at Wabic.
Minnesota, Sault Ste. Marie & Atlantic R. R. at Hermansville.
Minnesota, Sault Ste. Marie & Atlantic R. R. near Narenca (2 crossings).
Duluth, South Shore & Atlantic R'y at Negannee.
Duluth, South Shore & Atlantic R'y near Lake Angeline.
Duluth, South Shore & Atlantic R'y at Michigamme.
Duluth, South Shore & Atlantic R'y at Diorite.
Duluth, South Shore & Atlantic R'y at Dishno (2 crossings).
Duluth, South Shore & Atlantic R'y near Republic.

What railroads cross your road either over or under your grade in this State and where?
Over:
Duluth, South Shore & Atlantic R'y at Negannee (2 crossings).
Milwaukee & Northern R. R. at Antoine.
Minnesota, Sault Ste. Marie & Atlantic R. R. at Flat Rock.
Under:
Duluth, South Shore & Atlantic R'y near Wabic.

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At what crossings are interlocking and derailing switches in operation?
Duluth, South Shore & Atlantic crossing one mile east of Michigamme.
Milwaukee & Northern crossing at Wabic.
Milwaukee & Northern Republic branch crossing two miles east of Republic.

What pattern or patterns have you adopted?
Union switch and signal interlocking switches.

Number of crossings of highways at grade in this State	169
Number of crossings of highways at grade in this State at which there are gates or flagmen	11
Number of crossings of highways over or under railroad (over 3, under 8)	11
Have safty guards been erected at over-head obstructions	Yes.
Are your frog and guard rails blocked as required by Act 174, Session Laws of 1884	Yes.

How are they treated?
Oak block fitted to space and renewed as required.

Stations.

Number of stations on the whole line at which there are buildings and agents	686
Same in Michigan	37

Employés.

Number persons regularly employed on all roads operated by company including officials	19,587
Same in Michigan	1,913

Classify your employés as per following list:

	Number
Baggagemen	396
Brakemen	1,319
Conductors	729
Engineers	1,071
Firemen	1,179
Laborers	5,378
Shopmen	3,758
Yardmen	717
Others	5,050

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you	624.62

Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:

Iron	50.70
Menominee	60.82
Delta	38.90
Marquette	53.80
Gogebic	12.80
Dickinson	34.08
Total miles required	251.10

Road Bed and Track.

Number of track sections in Michigan, about	65
Average lengths of sections (miles), about	6
Average number of men in each section gang, about	6.3
Number of new ties put in whole line during the year	1,291,701
Number of new ties put in track in Michigan	121,228
Average number of new ties per mile of road	302
New rails put in track, steel (tons 16,966$\frac{1444}{2240}$) miles 153.	
Total miles of track laid with new rails	15

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	352
Timber culverts replaced during the year:	
With timber, number	18

New bridges built during the year—number, 4.

Location.	Kind.	Material.	Month built.	Feet in length.
Menominee	Pile trestle	Wood	August	48
Felch Branch	Pile trestle	Wood	August	48
Felch Branch	Pile trestle	Wood	August	154
Saunders	Pile trestle	Wood	June	32

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ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		761	
Number of locomotives of 20 to 30 tons weight, exclusive of tender		83	
Number of locomotives of 10 to 20 tons weight, exclusive of tender		2	
Total		846	$3,891,600 00
Number of passenger cars—12 wheel, including parlor and official cars		230	$579,200 00
Number of passenger cars—8 wheel, including chair and official cars		185	450,800 00
Number of express and baggage cars		117	117,000 00
Number of box freight cars		15,179	4,553,700 00
Number of stock cars		1,861	558,300 00
Number of platform and coal cars		4,247	1,104,220 00
Number of ore cars		4,005	600,750 00
Number of conductors' way cars		486	291,600 00
Other cars as follows:			
Dining	9		
Milk	29		
Mail	28		
Combination	49		
Boarding (for men)	18		
Dump	25		
Pile driving and wrecking	29		
Ditching	82		
Rotary steam snow plow	2		
		271	237,600 00
Total		26,581	$8,493,170 00
Grand total			$12,384,770 00

Number of locomotives equipped with power brakes	795
Number of passenger train cars equipped with power brakes	661
Number of freight cars equipped with power brakes	4,161
What patterns of power brakes have you in use, and number of locomotives and cars with each:	
Locomotives with Westinghouse automatic air brake	680
Locomotives with American steam brake	45
Locomotives with American steam brake and Westinghouse air brake	70
Passenger cars equipped with Westinghouse automatic air brake	661
Freight cars equipped with Westinghouse automatic air brake	4,161

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1883?

Yes.

What pattern or patterns have you adopted for use?

Janney coupler and Chicago automatic steel coupler.

How are your passenger cars heated?

82 are heated by steam, 176 by Baker heater and the balance by stoves.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	7,525,892
Miles run by freight trains during the year	14,755,051
Miles run by mixed trains	----------
Total mileage of trains earning revenue	22,280,943

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	72,638		
Number of local passengers carried	14,116,956		
Total number of passengers carried	14,189,594		
Total passenger mileage, or passengers carried one mile	334,114,466		
Average distance traveled by each passenger		23.54	
Average amount received from each passenger			$0 50
Average rate of fare per mile for through passengers			02.26
Average rate of fare per mile for local passengers			02.19
Average rate of fare per mile for all passengers			02.20

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	417,859		
Number of tons of local freight carried	13,525,617		
Total tons of freight carried	13,943,476		
Total mileage of through freight	148,200,749		
Total mileage of local freight	1,895,562,394		
Total freight mileage or tons carried one mile	2,043,763,143		

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	Miles.	Rate.
Average ton haul for through freight	355	
Average ton haul for local freight	140	
Average ton haul for all freight	147	
Average amount received for each ton haul		$1 50
Average rate per ton per mile received for through freight		.91
Average rate per ton per mile received for local freight		01.04
Average rate per ton per mile received for all freight		01.03

Freight Forwarded from Michigan Stations.

	Forwarded, tons.
Grain	754
Flour	540
Provisions (beef, pork, lard, etc.)	1,120
Animals	1,366
Other agricultural products	2,559
Lumber and forest products	487,097
Coal	95,675
Plaster, lime and cement	321
Salt	70
Petroleum	552
Pig and bloom iron	31,321
Other iron and castings	624
Ores	3,343,057
Stone, brick and sand	487
Manufactures—articles shipped from point of production	2,064
Merchandise and other articles not enumerated above	20,704
Total forwarded	3,987,311

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	1,436,940	10.31
Flour	329,764	2.36
Provisions (beef, pork, lard, etc.)	154,080	1.10
Animals	633,975	4.55
Other agricultural products	372,144	2.67
Lumber and forest products	1,771,604	12.71
Coal	1,656,124	11.88
Plaster, lime and cement	164,393	1.18
Salt	73,264	.53
Petroleum	20,125	.14
Railroad iron, iron and steel rails	68,954	.49
Pig and bloom iron	180,389	1.29
Other iron and castings	174,016	1.25
Ores	3,812,597	27.34
Stone, brick and sand	619,968	4.45
Manufactures—articles shipped from point of production	394,180	2.83
Merchandise and other articles not enumerated above	2,080,959	14.92
Total tons carried	13,943,476	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

American Express Company and United States Express Company.

By an agreement with American Express Co. of date February 27, 1890, to be in force for five years from February 1, 1890, the C. & N. W. R'y Co. agree to transport the freight of express company over all lines operated by the C. & N. W. R'y Co. (except to local points between Chicago and Milwaukee) for an annual payment of $386,000.04 for an estimated limited tonnage and an agreed schedule of rates for any exceptional excess of tonnage.

The United States Express Company has also the right to do express business between Chicago and Milwaukee, paying therefor $66.66 per diem on 17,000 pounds carried each day, whole route, and an agreed rate on any excess.

They do a miscellaneous business properly belonging to express business.

They deliver their freight into this company's cars.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

The entire length of road is afforded telegraph facilities by the lines of the Western Union Telegraph Company in which this company owns certain wires or rights to their use.

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TRANSPORTATION COMPANIES.

Sleeping, Drawing-room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report:

Sleeping cars are run on this company's lines in Michigan.

This company furnishes fuel and lights and keeps in order the exterior of the cars.

They are owned by the Wagner Palace Car Company and all charges in addition to regular fares are made and collected by the owner.

On "extra" cars (not regularly assigned to this line) this company has paid the Wagner Palace Car Co., of New York, N. Y., $221.01 as mileage.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

February 13, John Smith, brakeman. Caught between tank of engine and car; want of caution.
February 25, Emil Johnson, Carney. Caught between cars; carelessness.
March 9, Anton Milan, Stambaugh. Tried to cross bridge ahead of train; carelessness.
March 13, Dennis Lafortenel, Goose Lake Bridge. Walking on track; carelessness.
March 16, Jacob Schenberg, carpenter, Escanaba. Ore chute fell and struck him; want of caution.
May 15, Grozia Paradisa, Dunn Mine. Thrown from car on to track; want of caution.
May 25, Henry Fish, brakeman, Antoine. Knocked off caboose; want of caution.
July 1, Antoine Johaimy, laborer, Crystal Falls. Getting on moving train; want of caution.
July 4, Pauline Moquen, Gunthiers. Playing on track; carelessness.
July 11, Fred Carlson, laborer, Escanaba. Crossing track; want of caution.
August 3, D. Crestelli, Vulcan. Struck by train; carelessness.
August 29, M. J. Kennedy, brakeman, Iron Mountain. Fell between cars; want of caution.
September 15, L. A. Radue, switchman, Escanaba. Fell off moving train; want of caution.
September 17, Jessie Graham, Wilson. Walking on track; carelessness.
September 25, Louis Harding, brakeman, Beechwood. Fell off train; want of caution.
September 26, John Bover, laborer, Escanaba. Collision of switch trains; want of caution.
September 26, P. Van Valkenberg, fireman, Escanaba. Collision of switch trains; want of caution.
October 10, Charles Nelson, Antoine. Jumped off moving train; carelessness.
October 26, John B. Collette, Nadeau. Struck by train; carelessness.
November 10, Phillip Jannesse, Iron Mountain. Walking on track; carelessness.
December 7, John Kenney, brakeman, Palmer. Caught between cars derailed; want of caution.
December 15, P. Landenklaus, Spaulding. Walking on track; carelessness.
December 19, John Riel, brakeman, Anderson. Fell off car and run over; want of caution.

INJURED.

January 2, J. Coghlin, brakeman, Menominee. Coupling cars; want of caution.
January 20, G. W. Beath, brakeman, West Ishpeming. coupling cars; want of caution.
February 3, Jay Gibbs, conductor, Bark River. Fell off car; want of caution.
February 28, John Charbormeau, switchman, Ishpeming. Coupling cars; want of caution.
March 5, Peter Patener, near Negaunee. Getting on moving train; carelessness.
March 12, Leo Roseland, brakeman, Perkin's Branch. Car jumped track; accidental.
March 27, Nels Larson, section laborer, Brule. Fell out of car; want of caution.
May 13, Pat Kelly, brakeman, Nadeau. Train struck cow and jumped track; want of caution.
June 1, Michael O'Keefe, Negaunee. Jumped off moving passenger train; carelessness.
June 18, John Smith, laborer, Escanaba. Laid down with arm over rail; carelessness.
July 11, Con Ellwood, laborer, Escanaba. Struck by crank of ore chute; want of caution.
July 22, Thomas Fowler, conductor, Waucedah. Coupling engine; want of caution.
July 29, Edward Ross, brakeman, Powers. Coupling cars; want of caution.
July 31, Al. Paxton, brakeman, Powers. Coupling cars; want of caution.
August 1, H. Janske, switchman, Menominee. Coupling cars; want of caution.
August 9, J. Legenz, laborer, Metropolitan. Collision; want of caution.
August 14, J. C. Holt, fireman, Narenta. Collision; want of caution.
August 18, C. Wilson, brakeman, Escanaba. Running, fell under train; want of caution.
September 8, D W. Gibson, switchman, Escanaba. Coupling; want of caution.
September 10, Charles Larson, brakeman, Escanaba. Coupling; want of caution.
September 15, Mike Connors, conductor, Norway. Open switch, cars derailed; want of caution.
September 19, T. E. Carl, engineer, Escanaba. Collision; want of caution.
October 1, D. Bunno, brakeman, Powers. Coupling; want of caution.
October 1, Dell Livermore, brakeman, Ballons. Coupling; want of caution.
October 3, A. Knuart, switchman, Escanaba. Coupling; want of caution.
October 8, Owen McDonald, switchman, Escanaba. Coupling; want of caution.
October 10, H. A. Stedwell, brakeman, Hematite. Coupling; want of caution.
October 20, Herman Icks, brakeman, Iron Mountain. Coupling; want of caution.
October 31, Charles Fish, brakeman, Curry. Jumped from train; want of caution.
November 14, George Cummings, switchman, Escanaba. Coupling; want of caution.
November 20, Mrs. Jacobson, Talbot. Walking on track, struck; carelessness.
November 26, E. D. Flanders, conductor, Narenta. Stepped on side of running board of car; want of caution.
December 2, V. Porglyto, Iron Mountain. Climbing between cars, foot caught; carelessness.
December 12, Martin Casey, switchman, Negaunee. Running, fell under engine; want of caution.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		2			8	
Coupling cars					16	
Derailments		1			3	
Falling from trains		4			2	
Frogs						
Getting on and off trains		1			1	
Highway crossings						
Miscellaneous		4	1		5	
Overhead obstructions						
Trespassers on trains			1			2
Trespassers on tracks			9			2
Total		12	11		30	4

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	23
Number of persons injured during the year	34
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness or misconduct	56
Trespassers and tramps killed or injured	14

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	6	13	19
Conductors		4	4
Engineers		1	1
Firemen	1	1	2
Laborers	3	4	7
Shopmen			
Yardmen	1	7	8
Not classified above	1		1
Total	12	30	42

STATE OF ILLINOIS, } ss.
COUNTY OF COOK. }

Marvin Hughitt, president, and J. B. Redfield, auditor, of the Chicago & Northwestern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, M. HUGHITT.
J. B. REDFIELD.

Subscribed and sworn to before me this 9th day of March, A. D., 1892.

[L. S.] F. W. CLEVELAND,
Notary Public, Cook Co., Illinois.

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ANNUAL REPORT

OF THE

INDIANA & LAKE MICHIGAN RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed March 15, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN G. WILLIAMS, Terre Haute, Ind.
Secretary and Treasurer, GEORGE E. FARRINGTON, Terre Haute, Ind.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 30, 1888.

Number of stockholders at date of last election	5
Number of stockholders in Michigan at same date	None.
Amount of full paid stock held in Michigan at same date	None.

Date of annual meeting of stockholders,—Second Wednesday in December.
Fiscal year of company ends October 31.
General offices of company are located at Terre Haute, Ind.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$8,341 56
Total expenses, including taxes	$28,165 47	
Deficit	$19,823 91	
Interest on funded debt	24,000 00	
Balance for the year	$43,823 91	
Balance (profit and loss) last year	73,521 29	
Balance forward to next year		$117,345 20

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	$800,000 00
Par value of shares	100 00
Number of shares issued	8,000
Amount paid in on preferred	None.
Amount paid in on shares not issued (number)	None.

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds	5%	Sept. 1, 1939	Central Trust Co. of N. Y.	$480,000 00

UNFUNDED DEBT.

For construction	$69,034 35
For real estate	48,310 85
Total unfunded debt	$117,345 20

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RECAPITULATION.

Total funded debt	$480,000 00
Total unfunded debt	117,345 20
Total debt liabilities	$597,345 20
Amount of debt liabilities per mile of road (39.29 miles)	15,203 49
Total amount of stock and debt	1,397,345 20
Stock and debt per mile of road (39.29 miles)	35,564 91

GENERAL BALANCE SHEET.—DR.

Construction account	$595,313 88
Other assets:	
Materials and supplies	110 57
Balance	801,920 75
Total	$1,397,345 20

GENERAL BALANCE SHEET.—CR.

Capital stock	$900,000 00
Funded debt	480,000 00
Unfunded debt:	
Vouchers and accounts	117,345 20
Total	$1,397,345 20

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—January 6, 1890.	
Original cost to present company of road and equipment	$480,000 00
Amount expended since purchase, account of construction	115,313 88
Total cost to date of report	$595,313 88
Average cost per mile of road (not including sidings, 39.29 miles)	$15,151 79
Proportion of cost for Michigan	379,552 34

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$1,331 54
New buildings	491 38
New fences	733 49
Total	$2,566 41
Total charges to property account as above	$2,566 41
Net addition to property account	$2,566 41

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$8,188 37	
Through fares	725 76	
Total passenger fares	$8,914 18	
Express and baggage	3,464 61	
Mails	3,651 46	
Total		$16,030 20
Proportion for Michigan	$10,220 32	
Per train mile	44	
Per mile of road	408 00	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$10,180 81	
Through traffic	7,155 20	
Total traffic		17,336 01
Proportion for Michigan	$11,052 86	
Per train mile	63	
Per mile of road	441 23	
Total transportation earnings		$33,366 21

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Transportation earnings per mile of road	$849 23	
Transportation earnings per train mile	53	
Total earnings from operation of road	33,366 21	
Total earnings per mile of road	849 23	
Total earnings per train mile	53	
Proportion of taxable earnings for Michigan	21,273 18	
Total taxable earnings per mile of road in Michigan	849 23	
Total income from all sources		$33,366 21
Proportion of income for Michigan		$21,273 18

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$12,801 40
Renewals of rails	41 90
Repairs of bridges, including culverts and cattle guards	598 58
Repairs of fences, road crossings and signs	443 40
Repairs of buildings	978 31
Total	$14,863 59

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$2,860 45
Repairs of passenger cars	286 98
Repairs of freight cars	1,306 52
Total	$4,453 95

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,785 79
Water supply	321 14
Oil and waste	468 10
Locomotive service	4,653 43
Passenger train service	2,092 53
Passenger train supplies	195 02
Mileage of passenger cars	2,818 20
Freight train service	2,702 19
Freight train supplies	89 92
Mileage of freight cars	867 59
Telegraph expenses (maintenance and operating)	799 79
Damages to property and cattle	38 35
Agents and station service	2,994 96
Station supplies	25 48
Total	$21,302 44

GENERAL EXPENSES.

Law expenses	$57 00
Stationery and printing	248 19
Outside agencies and advertising	36 32
Contingencies	340 26
Total	$681 77

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	35.99	$14,863 59
Maintenance of motive power and cars	10.78	4,453 95
Conducting transportation	51.58	21,302 44
General expenses, including taxes	1.65	681 77
Total operating expenses and taxes	100.00	$41,301 75

Operating expenses and taxes per mile of road	$1,051 20
Operating expenses and taxes per train mile run, for trains earning revenue (63,399 miles)	65
Proportion of operating expenses and taxes for Michigan	26,332 63
Total proportion of expenses for Michigan	$26,332 63
Percentage of expenses to earnings	123.78

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From South Bend, Ind., to St. Joseph, Mich., August 4, 1890.

MAIN LINE.

	Miles.
In Michigan, from St. Joseph to Indiana state line	25.05
In Indiana, from Indiana state line to South Bend	14.24
Total length completed	39.29
Total length of road belonging to this company	39.29
Total length of road belonging to this company in Michigan	25.05
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	2.81
Aggregate length of tracks in Michigan belonging to this company, computed as single track	27.86

Gauge of track, 4 feet, 9 inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	20	1,774
Total	20	1,774

Crossings—Railroad and Highway.

What railroads cross your road either over or under your grade in this State, and where?
Over:
Michigan Central R. R. at Galien, Mich.

At what crossings are interlocking and derailing switches in operation?
Oliver's, Ind., Chicago & Grand Trunk R'y.
Rugby, Ind., L. S. & M. S. R'y.

What pattern or patterns have you adopted?
Union Switch & Signal Co.

Number of crossings of highways at grade in this State	24
Number of crossings of highways over or under railroad (over 3)	3
Number of highway bridges 18 feet above track	3
Have safety guards been erected at overhead obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Not all.

Stations.

Number of stations on whole line	10
Same in Michigan	6

Employés.

Number persons regularly employed on all roads operated by company, including officials	53
Same in Michigan	36

Classify your employés as per following list:

	Number
Baggagemen	2
Brakemen	2
Conductors	2
Engineers	2
Firemen	2
Laborers	30
Others	13

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	44.81
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
In Berrien county, not fenced on account of agreement with land owners	3.44
In Berrien county, not fenced through towns and yards	1.35
Total miles required	None.

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Road Bed and Track.

Number of track sections in Michigan	5
Average length of sections (miles)	5
Average number of men in each section gang	4
Number of new ties put in whole line during the year (side tracks)	1,558
Number of new ties put in track in Michigan (side tracks)	839
New rails put in track, 2d class, iron, tons 22, miles (side tracks)	0.24

ROLLING STOCK.—NONE.

MILEAGE, TRAFFIC, ETC.

Train Mileage

Miles run by passenger trains during the year	36,236
Miles run by freight trains during the year	27,163
Total mileage of trains earning revenue	63,399

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers	1,003		
Number of local passengers carried	15,359		
Total number of passengers carried	16,362		
Total passenger mileage, or passengers carried one mile	404,860		
Average distance traveled by each passenger		25	
Average amount received from each passenger			$0 54
Average rate of fare per mile for through passengers			01.806
Average rate of fare per mile for local passengers			02.245
Average rate of fare per mile for all passengers			02.202

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	12,923		
Number of tons of local freight carried	16,487		
Total tons of freight carried	29,510		
Total mileage of through freight	490,442		
Total mileage of local freight	368,717		
Total freight mileage, or tons carried one mile	859,159		
Average ton haul for through freight		37	
Average ton haul for local freight		22	
Average ton haul for all freight		29	
Average amount received for each ton haul			$0 58
Average rate per ton per mile received for through freight			01.459
Average rate per ton per mile received for local freight			02.761
Average rate per ton per mile received for all freight			02.013

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	574
Provisions (beef, pork, lard, etc.)	96
Animals	42
Other agricultural products	1,237
Lumber and forest products	9,840
Plaster, lime and cement	56
Salt	1,942
Pig and bloom iron	3,765
Other iron and castings	684
Stone, brick and sand	774
Merchandise and other articles not enumerated above	5,610
Total	24,620

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	743	2.49
Flour	57	.19
Provisions (beef, pork, lard, etc.)	270	.91
Animals	52	.17
Other agricultural products	1,869	6.26
Lumber and forest products	10,850	36.40
Coal	1,063	3.57
Plaster, lime and cement	160	.54
Salt	1,976	6.63
Pig and bloom iron	3,925	13.17
Other iron and castings	902	3.03
Ores	16	.05
Stone, brick and sand	820	2.75
Manufactures—articles shipped from point of production	838	2.81
Merchandise and other articles not enumerated above	6,269	21.03
Total tons carried	29,810	100.

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company; $10.00 per day. Kind of business, merchandise usually carried by express companies. Freight received at stations.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

39.29 miles. Western Union Telegraph Co.

STATEMENT OF ACCIDENTS.

Injured.

September 26, Richard Wright. brakeman, Maxon's Siding. Carelessness on part of injured man; slight injury to hand.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					1	
Derailments						
Falling from trains						
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous						
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total					1	

SUMMARY OF ACCIDENTS IN MICHIGHN.

Number of persons killed during the year	None.
Number of persons injured during the year	1
Number resulting from lack of caution, carelessness, or misconduct	1

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		1	1
Conductors			
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total		1	1

STATE OF INDIANA, } ss.
COUNTY OF VIGO, }

John G. Williams, President, and George E. Farrington, Secretary, of the Indiana & Lake Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.] JOHN G. WILLIAMS,
GEO. E. FARRINGTON,

Subscribed and sworn to before me this 12th day of March, A. D. 1892.

[L. S.] HORACE M. SMITH,
Notary Public.

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ANNUAL REPORT

OF THE

WABASH RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 17, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, O. D. ASHLEY, New York.
Vice Presidents, EDGAR T. WELLES, New York.
JAMES F. HOW, St. Louis, Mo.
Secretary, J. C. OTTESON, New York.
Auditor, D. B. HOWARD, St. Louis, Mo.
Treasurer, F. L. O'LEARY, St. Louis, Mo.
General Manager, C. M. HAYS, St. Louis, Mo.
General Superintendent, H. L. MAGEE, St. Louis, Mo.
Division Supirintendents, E. A. GOULD, Peru, Ind.
J. S. GOODRICH, Chicago, Ill.
F. H. McGUIGAN, Kansas City, Mo.
Chief Engineer, W. S. LINCOLN, St. Louis, Mo.
Superintendent of Telegraph, G. C. KINSMAN, Decatur, Ills.
General Passenger Agent, F. CHANDLER, St. Louis, Mo.
General Freight Agent, S. B. KNIGHT, St. Louis, Mo.
Attorney, W. H. BLODGETT, St. Louis, Mo.

DIRECTORS.

EDGAR. T. WELLES, New York, N. Y.
THOS. H. HUBBARD, New York, N. Y.
JAMES F. JOY, Detroit, Mich.
HENRY K. McHARG, New York, N. Y.
SIDNEY DILLON, New York, N. Y.
RUSSELL SAGE, New York, N. Y.
GEORGE J. GOULD, New York, N. Y.
CYRUS J. LAWRENCE, New York, N. Y.
S. C. REYNOLDS, Toledo, Ohio.
JOHN T. TERRY, New York, N. Y.
JAMES F. HOW, St. Louis, Mo.
CHAS. M. HAYS, St. Louis, Mo.
O. D. ASHLEY, New York, N. Y.
Term expires second Tuesday in September, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—July 31, 1889.
Number of stockholders at date of last election,—Not known.
Number of stockholders in Michigan at same date,—Not known.
Amount of full paid stock held in Michigan at same date,—Not known.
Date of annual meeting of stockholders,—Second Tuesday in September.
Fiscal year of company ends June 30.
General offices of the company are located at St. Louis, Mo.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$14,805,189 66
Total expenses, including taxes	$10,758,817 46	
Net income or deficit		$3,546,822 20
Interest on funded debt and rentals leased lines	$2,669,754 11	
Rentals of buildings, tracks, etc.	465,634 93	
Sundries	385,051 86	
		3,520,440 90
Balance		$25,881 30
Balance for the year		$25,881 30
Balance (profit and loss) last year		700,247 33
Balance forward to next year		$726,128 63

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$52,000,000 00
Par value of shares		100 00
Number of shares issued		520,000
Amount paid in on common	$28,000,000 00	
Amount paid in on preferred	24,000,000 00	
Total amount paid in, as per books of the company		52,000,000 00
Paid in per mile of road owned by company—1,544.9 miles		33,661 31

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, Wabash R. R. Co.	5%	1939	New York	$22,581,000 00
Second mortgage bonds, Wabash R. R. Co.	5%	1939	"	14,000,000 00
Debenture bonds	6% if earned	1939	"	30,000,000 00
First mortgage bonds, North Missouri R. R.	7%	1895	"	6,000,000 00
Real estate and railway mortgage bonds	7%	1895	"	3,000,000 00
First mortgage bonds, St. Charles bridge	6%	1908	"	1,000,000 00
Second mortgage bonds, St. Charles bridge	7%	1908	"	388,500 00
First mtge. bonds, Boone Co. & Boonville R. R.	7%	1903	"	100,000 00
First mtge. bonds, Brunswick & Chillicothe R. R.	6%	1908	"	304,500 00
First mtge. bonds, St. L. C. B. & O. R. R.	6%	1908	"	626,000 00
Total funded debt				$78,000,000 00

RECAPITULATION.

Total funded debt	$78,000,000 00
Total debt liabilities	$78,000,000 00
Amount of debt liabilities per mile of road (1,544.9)	50,492 00
Total amount of stock and debt	$130,000,000 00
Stock and debt per mile of road (1,544.9)	84,153 31

GENERAL BALANCE SHEET.—Dr.

Construction account, Equipment account		$129,928,500 00
Other investments		152,070 54
Cash items:		
Cash	$1,573,694 44	
Due from agents	238,602 99	
		1,812,297 43
Other assets:		
Materials and supplies	$911,488 68	
Debit balances from companies and individuals	1,517,025 75	
		2,428,514 43
Wabash reorganization		420,000 00
Total		$134,741,382 40

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GENERAL BALANCE SHEET.—Cr.

Capital stock		$52,000,000 00
Funded debt		78,000,000 00
Unfunded debt:		
Interest unpaid	$379,935 08	
Other liabilities	2,589,391 03	
		3,469,326 11
Income account prior to July 1, 1889		543,681 42
The purchasing committee		2,296 24
Profit and loss or income accounts		726,128 63
Total		$134,741,382 40

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—July 1, 1889.		
Original cost to present company of road and equipment		$129,928,500 00
Total cost to date of report		$129,928,500 00
Average cost per mile of road (not including sidings, 1,544.9 miles)		84,153 31
Proportion of cost for Michigan (76.2 miles)		6,412,482 22

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Detroit Division, comprising the Detroit, Butler & St. Louis R. R., Eel River R. R., Peru & Detroit Ry., Chicago & Erie track—339.5 miles:		
Total passenger fares	$563,854 32	
Express and baggage	12,260 55	
Mails	17,745 71	
Other sources	7,351 76	
Total passenger department earnings		$601,712 34
Proportion for Michigan, 797-3,395 of $601,712.34	$141,256 18	
Per train mile	91.42	
Per mile of road	1,772 35	

FREIGHT EARNINGS.

Detroit Division, comprising the Detroit, Butler & St. Louis R. R., Eel River R. R., Peru & Detroit Ry., Chicago & Erie track—339.5 miles:		
Total traffic	$1,573,430 42	
Other sources, freight department	31,303 79	
Total freight department earnings		$1,604,734 21
Proportion for Michigan, 797-3,395 of $1,604,734.21	$376,722 58	
Per train mile	1 33.14	
Per mile of road	4,726 75	
Total transportation earnings, entire line		$13,951,184 98
Transportation earnings per mile of road, 1,924 miles	$7,251 13	
Transportation earnings per train mile	1 20.9	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From rentals of tracks or terminals From other sources		353,954 68
Total		$14,305,139 66

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

	Total miscellaneous.	Proportion for Michigan.
Detroit Elevator commissions	$2,333 94	$2,333 94

Total earnings from operation of road, entire line		$13,951,184 98
Total earnings per mile of road, entire line	$7,251 13	
Total earnings per train mile, entire line	1 20.9	
Proportion of taxable earnings for Michigan	517,978 76.	
Total taxable earnings per mile of road in Michigan, 79.7 miles	6,499 10	
Income other than from earnings, entire line		353,954 68
Total income from all sources		$14,305,139 66

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ANALYSIS OF EXPENSES—ENTIRE LINE.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$983,426 56
Renewals of rails	142,461 54
Renewals of ties	340,044 03
Repairs of bridges, including culverts and cattle guards	276,354 92
Repairs of fences, road crossings and signs	66,472 19
Repairs of buildings	150,217 77
Total	$1,958,977 01

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$714,305 19
Repairs of passenger cars	340,084 33
Repairs of freight cars	804,261 51
Total	$1,858,651 03

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$692,919 69
Water supply	94,522 94
Oil and waste	81,317 83
Locomotive service	920,908 02
Passenger train service	183,790 76
Passenger train supplies	45,290 61
Mileage of passenger cars	9,485 69
Freight train service	567,340 59
Freight train supplies	345 47
Mileage of freight cars	276,363 87
Telegraph expenses (maintenance and operating)	225,556 40
Damage and loss of freight and baggage	65,609 08
Damages to property and cattle	63,769 97
Personal injuries	96,449 20
Agents and station service	1,793,208 01
Station supplies	55,742 13
Total	$5,172,615 25

GENERAL EXPENSES.

Salaries of the general officers of the company	$265,539 59
Salaries of clerks in general offices	42,590 07
Law expenses	60,678 11
Insurance	26,249 38
Stationery and printing	80,986 84
Outside agencies and advertising	377,038 94
Contingencies	461,165 25
Taxes	454,376 04
Total	$1,768,574 17

RECAPITULATION OF EXPENSES.

Maintenance of way and buildings	$1,958,977 01
Maintenance of motive power and cars	1,858,651 03
Conducting transportation	5,172,615 25
General expenses, including taxes	1,768,574 17
Total operating expenses and taxes	$10,758,817 46
Operating expenses and taxes per mile of road (1,924 miles)	$5,591 90
Operating expenses and taxes per train mile run, for trains earning revenue (11,586,488 miles)	93.25

Proportion of operating expenses and taxes for Michigan:

Leased or Proprietary Roads.

Detroit Division, comprising Detroit, Butler & St. Louis R. R., Eel River R. R., Peru & Detroit Ry., Chicago & Erie Track—33.5 miles.	
Total proportion of expenses for Michigan, 797-3,395 of $1,645,575.35	$386,310 33
Percentage of expenses to earnings, entire line	77.11
Net earnings per mile of road, entire line	1,659 23
Net earnings per train mile, entire line	27.65

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Detroit to Butler, 1881.

MAIN LINE.

	Miles.
In Michigan from 12th street, Detroit, to Ohio state line	79.7
Total length completed	79.7
Total length of road belonging to this company in Michigan	79.7
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	30.9
Aggregate length of tracks in Michigan belonging to this company, computed as single track	110.6

Gauge of track—4 feet, 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total miles.	In Michigan.
Detroit Union Depot track	3.5	3.5
Delray to Butler	110.2	76.2
Butler to Logansport	93.2	----
Chili to Peru	9.5	----
Laketown Junction to State Line	103.3	----
State Line to Chicago	19.8	----
Total miles operated by the company, constituting Detroit Division	339.5	79.7

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	93	730
Combination bridges	2	364
Wooden trestles	74	4,919
Total	169	6,013

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Lake Shore & Michigan Southern R. R. at Delray.
Michigan Central R. R. at Delray and West Detroit.
Flint & Pere Marquette R. R. at Romulus.
Toledo, Ann Arbor & Northern Michigan R. R. at Milan.
Cincinnati, Jackson & Mackinac R. R. at Britton.
Lake Shore & Michigan Southern R. R. at Raisin Center.
Michigan Central R. R. at Raisin Center.
Lake Shore & Michigan Southern R. R. at Adrian.
Michigan Central R. R. at Adrian.

At what crossings are interlocking and derailing switches in operation?
Delray with Lake Shore & Michigan Southern R. R.
Adrian with Lake Shore & Michigan Southern R. R., and Michigan Central R. R.
Raisin Center with Lake Shore & Michigan Southern R. R. and Michigan Central R. R.

What pattern or patterns have you adopted?
Sexby and Farmer.

Number of crossings of highways at grade in this State	155
Number of crossings of highways at grade in this State at which there are gates or flagmen	8
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Blocked with plank.

Stations.

Number of stations on whole line Wabash R. R.	455
Same in Michigan	16

Employés.

Number persons regularly employed on all roads operated by company, including officials	8,578
Same in Michigan	416

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Classify your employés as per following list:

	Number.
Baggagemen	9
Brakemen	45
Conductors	26
Engineers	33
Firemen	25
Laborers	134
Shopmen	18
Yardmen	37
Others	79
Total	416

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you? 75.198

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:

All fenced except through city limits.

Road Bed and Track.

Number of track sections in Michigan	11
Average length of sections, miles	6.98
Average number of men in each section gang	5.55
Number of new ties put in track in Michigan	30,992
Average number of new ties per mile of road	392
New rails put in track:	
Steel (tons 704) miles	8
Total miles of track laid with new rails	8

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	1,131
Timber culverts replaced during the year:	
With timber, number	18

New bridges built during the year—number:

Location.	Kind.	Material.	Month built.	Feet in length.
No. 799. Just east of Milan	Pile trestle	Oak and pine	March, 1891	341

ROLLING STOCK—ENTIRE LINE.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	359	$1,436,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	38	76,000 00
Total	397	$1,512,000 00
Number of passenger cars—12 wheel, including official cars	94	$361,900 00
Number of passenger cars— 8 wheel, including official cars	94	189,700 00
Number of express and baggage cars	99	214,300 00
Number of box freight cars	7,477	2,314,125 00
Number of stock cars	1,822	373,500 00
Number of platform and ore cars	4,287	928,925 00
Number of conductors' way cars	211	118,325 00
Other cars	83	39,310 00
Total	13,667	$4,439,985 00

Number of locomotives equipped with power brakes	368
Number of passenger train cars equipped with power brakes	287
Number of freight cars equipped with power brakes	518
What patterns of power brakes have you in use, and number of locomotives with each?	
Westinghouse air and American steam	296
American steam	72

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Law of 1885?

No.

How are your passenger cars heated?

Hard coal stoves and hot water heaters.

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MILEAGE TRAFFIC, ETC.

Train Mileage—Entire Line.

Miles run by passenger trains during the year	4,603,376
Miles run by freight trains during the year	6,933,062
Total mileage of trains earning revenue	11,536,438

Passenger Traffic—Entire Line.

	Numbers and quantities.	Miles.	Rate.
Total number passengers carried	3,622,334		
Total passengers mileage, or passengers carried one mile	168,276,704		
Average distance traveled by each passenger		45.1	
Average amount received from each passenger			$0 81.77
Average rate of fare per mile for all passengers			02.095

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Total tons of freight carried	6,542,481		
Total freight mileage, or tons carried one mile	1,268,329,924		
Average ton haul for all freight		193.9	
Average amount received for each ton haul			$1 46.39
Average rate per ton per mile, received for all freight			.755

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	1,346,150	20.58
Flour	131,345	2.01
Provisions (beef, pork, lard, etc.)	209,542	3.20
Animals	479,983	7.34
Other agricultural products	269,040	4.11
Lumber and forest products	532,867	8.14
Coal	1,669,803	25.52
Plaster, lime and cement	110,532	1.69
Petroleum	52,596	.80
Railroad iron, iron and steel rails	12,226	.19
Pig and bloom iron	31,731	.49
Other iron and castings	62,823	.96
Ores	2,126	.03
Stone, brick and sand	172,782	2.64
Manufactures—articles shipped from point of production	85,929	1.31
Merchandise and other articles not enumerated above	1,373,006	20.99
Total tons carried	6,542,481	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?
Pacific Express Company.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
206.5 miles on Detroit division, Western Union Telegraph Company.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room, and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?
Wagner Palace Car Company, New York. Amount not kept separate for Michigan.

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Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State, upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Blue Line	Amount not kept separate for Michigan.
Canadian Pacific Dispatch	
Canada Southern Line	
Empire Line	
Erie Dispatch	
Great Eastern Line	
Merchants Dispatch Transportation Company	
Midland Line	
National Dispatch Line	
Red Line	
Union Line	
White Line	

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

March 5, William Drowdoski, boy aged 9 years, Detroit. Struck on crossing.
May 21, John Stewart, trespasser, Adrian. Struck by train; supposed to have been drunk.

INJURED.

January 28, Wm. Dromillard, switchman, Delray. Slipped off brake and caught between rail and wheel while coupling cars.
February 18, F. C. Soop, bridge carpenter, Belleville. While removing guard rail, was struck in face by piece of flying iron.
January 22, L. D. Frantz, laborer, Seneca. Struck by train while on track.
May 11, Robert Young, boy 10 years, trespasser, Belleville. Climbing over freight cars, foot caught between drawbars.
May 28, Walter Prouty, boy 10 years, Delray. Fell under train alongside of which he was walking; leg cut off.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars						
Derailments						
Falling from trains					1	
Frogs						
Getting on and off trains						
Highway crossings			1			
Miscellaneous					2	
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks			2			
Total			3		3	1

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	3
Number of persons injured during the year	4
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness, or misconduct	4
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured	1

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors			
Engineers			
Firemen			
Laborers		1	
Shopmen			
Yardmen		1	
Not classified above		1	
Total		3	3

STATE OF MISSOURI, } ss.
CITY OF ST. LOUIS. }

James F. How, vice president, of the Wabash Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of his knowledge and belief.

Signed,

JAMES F. HOW,
Vice President Wabash R. R.

[SEAL OF R. R.]

Subscribed and sworn to before me this 11th day of March, A. D., 1892.

[L. S.]

B. C. WINSTON,
Notary Public, City St. Louis, Mo.

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ANNUAL REPORT

OF THE

MICHIGAN CENTRAL RAILROAD COMPANY,

For the Year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Chairman, C. VANDERBILT, New York City.
President, H. B. LEDYARD, Detroit, Mich.
Vice President, E. D. WORCESTER, New York City.
Auditor, D. A. WATERMAN, Detroit, Mich.
Treasurer, HENRY PRATT, New York City.
General Manager, H. B. LEDYARD, Detroit, Mich.
General Superintendent, ROBERT MILLER, Detroit, Mich.
Assistant General Superintendent, R. H. L'HOMMEDIEU, Detroit, Mich.
Division Superintendents:
D. S. SUTHERLAND, Detroit, Mich.
C. B. BUSH, Jackson, Mich.
W. J. MARTIN, Bay City, Mich.
J. H. SNYDER, Chicago, Ill.
J. B. MORFORD, St. Thomas, Ont.
Chief Engineer, J. D. HAWKS, Detroit, Mich.
Superintendent of Telegraph, E. E. TORREY, Detroit, Mich.
Cashier, J. E. GRIFFITHS, Detroit, Mich.
General Passenger and Ticket Agent, O. W. RUGGLES, Chicago, Ill.
General Freight Agent, A. MACKAY, Chicago, Ill.
General Counsel, ASHLEY POND, Detroit, Mich.
General Attorney, HENRY RUSSELL, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York City.
W. K. VANDERBILT, New York City.
H. B. LEDYARD, Detroit, Mich.
E. D. WORCESTER, New York City.
SAMUEL F. BARGER, New York City.
CHAUNCEY M. DEPEW, New York City.
ASHLEY POND, Detroit, Mich.
*F. W. VANDERBILT, New York City.
F. S. WINSTON, Chicago, Ill.
*W. L. SCOTT, Erie, Pa.
Terms expire May, 1892.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—March 28, 1846.

Number of stockholders at date of last election	1,353
Number of stockholders in Michigan at same date	18
Amount of full paid stock held in Michigan at same date	$86,900 00

Date of annual meeting of stockholders,—Thursday following first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located as follows:
New York City, Grand Central Station.
Detroit, Mich., Foot of Third street.
Chicago, Ill., 183 to 189 Clark street.

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* The vacancy in the Board of Directors caused by the death of William L. Scott, September 19, 1891, was filled by the appointment of Frederick W. Vanderbilt, of New York, December 23, 1891.

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GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$15,162,960 17
Total expenses, including taxes		$11,107,569 50	
Net income			$4,055,390 67
Interest on funded debt:			
M. C. R. R. proper	$660.000 00		
Leased lines	407,800 00		
		$1,067,800 00	
Rentals of leased lines and Canada Southern R'y interest		1,371,486 80	
Canada Southern R'y proportion of net earnings		446.775 80	
			$2,886,062 60
Balance applicable to dividends			$1,169,328 07
Dividends declared (5½ %)			1,030,601 22
Balance for the year			$138,726 85
Balance (profit and loss) last year			6,708,464 22
Items not included in above, as follows: Income from sundry securities			58,878 46
Sundry deductions account M. A. L. claims		$250 00	
Balance forward to next year		6,905,819 53	
		$6,906,069 53	$6,906,069 53

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		Not limited.
Par value of shares	$100 00	
Number of shares issued	187,382.04	
Amount paid in on common		$18,738,204 00
Total amount paid in, as per books of the company		$18,738,204 00
Paid in per mile of road owned by company—miles, 270.07		$69,382 77

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Bonds, Michigan Central R. R. Co. proper.				
Consolidated first mortgage, May 1, 1872	7%	May 1, 1902	New York	$8,000,000 00
" " " Nov. 1, 1882	5%	May 1, 1902	" "	2,000,000 00
Total Mich. Cent. proper				$10,000,000 00
Bonds issued by Mich. Cent. R. R. Co.—account of respective leased lines.				
Grand River Valley Railroad, general first mortgage, Sept. 1, 1879	6%	Sept. 1, 1909	New York	$500,000 00
Grand River Valley Railroad, general first mortgage, March 1, 1886	6%	Sept. 1, 1909	" "	1,000,000 00
Detroit & Bay City Railroad, first mortgage, March 1, 1881	5%	March 1, 1931	" "	3,576,000 00
Kalamazoo & South Haven Railroad, first mortgage, Nov. 1, 1889	5%	Nov. 1, 1939	" "	700,000 00
Michigan Air Line Railroad, first mortgage, Jan. 1, 1890	4%	Jan. 1, 1940	" "	2,600,000 00
Total leased lines				$8,376,000 00
Total funded debt				$18,376,000 00

UNFUNDED DEBT.

For miscellaneous	$2,389,715 50
Total unfunded debt	$2,389,715 50

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RECAPITULATION.

Total funded debt, M. C. proper	$10,000,000 00
Total unfunded debt	2,389,715 50
Total debt liabilities, M. C. proper	$12,389,715 50
Amount of debt liabilities per mile of road (270.07 miles)	45,875 94
Total amount of stock and debt, M. C. proper	31,127,919 50
Stock and debt per mile of road (270.07 miles)	115,253 71

GENERAL BALANCE SHEET.—Dr.

Construction account (includes amounts expended acct., construction leased lines)		$42,337,241 06
Advanced on account of land purchased in construction of Detroit Belt Line.	$268,624 43	
Sundry securities, etc.	608,686 25	
		877,310 68
Cash items:		
Cash	$798,518 07	
Due from agents	496,467 93	
		1,294,986 00
Other assets:		
Materials and supplies	$1,139,431 62	
Debit balances from companies and individuals	760,769 77	
		1,900,201 39
Total		$46,409,739 13

GENERAL BALANCE SHEET.—Cr.

Capital stock		$18,738,204 00
Funded debt:		
Bonds, Michigan Central Railroad, proper		10,000,000 00
Bonds issued account leased lines		8,376,000 00
Unfunded debt:		
Interest unpaid	$42,185 00	
Dividends unpaid	1,536 50	
Vouchers and accounts	902,506 28	
Pay rolls	508,071 08	
Dividend No. 59, due February 1, 1892	655,837 14	
Accrued interest of 1891 due in 1892	284,579 50	
		2,389,715 50
Profit and loss or income accounts		6,905,819 63
Total		$46,409,739 13

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—September 24, 1846.	
Original cost to present company, of road and equipment	$2,000,000 00
Amount expended since purchase, account of construction } Amount expended since purchase, account of equipment }	29,083,185 59
Total cost to date of report	31,083,185 59
Average cost per mile of road (not including sidings, 270.07 miles)	115,093 07
Proportion of cost for Michigan (221 miles)	25,435,568 47
Amounts expended, account leased and proprietary lines:	
Michigan Air Line Railroad	$3,154,267 15
Grand River Valley Railroad	2,507,215 87
Jackson, Lansing & Saginaw Railroad	858,071 64
Kalamazoo & South Haven Railroad	815,610 24
Detroit & Bay City Railroad	3,732,549 23
Saginaw Bay & Northwestern Railroad	176,739 00
Battle Creek & Sturgis Railway	9,271 75
Bay City & Battle Creek Railway	330 59
Total property account	$42,337,241 06

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

	Land.
Main line	$7,803 85
Leased or proprietary roads:	
Michigan Air Line Railroad	1,990 00
Grand River Valley Railroad	105,799 00
Jackson, Lansing & Saginaw Railroad	9,300 00
Detroit & Bay City Railroad	26,929 44
Total charges	$151,822 29
Total charges to property account as above	$151,822 29
Net addition to property account	151,822 29

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$1,556,984 67	$475,842 57	$2,032,827 24	$257,778 56	$120,428 77	$2,411,034 57	$1,875,780 07		$8,487 47
Leased or proprietary roads:									
Michigan Air Line Railroad	63,000 05	30 95	63,031 00	1,550 84	9,609 84	74,191 68	70,287 53		644 25
Joliet & Northern Indiana Railroad	12,430 98	54 90	12,485 88	660 91	1,983 38	15,080 17			335 11
Grand River Valley Railroad	152,996 06	6,462 40	159,458 46	4,271 93	19,799 82	183,530 21	183,530 21		2,190 36
Jackson, Lansing & Saginaw Railroad	508,539 04	7,049 50	515,588 54	13,148 19	34,774 68	563,511 41	563,511 41		1,909 56
Kalamazoo & South Haven Railroad	28,535 61	53 60	28,589 21	1,995 47	2,227 80	32,752 48	32,752 48		829 18
Detroit & Bay City Railroad	235,402 06	8,983 00	244,385 06	9,215 39	18,209 04	271,759 49	271,759 49		1,794 74
Toledo, Canada Southern & Detroit R'y	160,252 53	11,823 94	172,076 47	7,599 74	14,575 32	194,251 53	155,843 00		3,296 87
Canada Southern R'y (in Canada)	781,742 80	504,932 12	1,286,674 92	120,369 16	34,982 05	1,442,026 13			3,808 39
Michigan Midland & Canada Railroad	5,474 77		5,474 77	118 25	1,043 52	6,636 54	6,636 54		452 06
Canada Southern Bridge Co.	726 35		726 35		103 08	829 43	829 43		226 62
Saginaw Bay & Northwestern Railroad	13,541 48		13,541 48		1,209 00	14,750 48	14,750 48		169 14
Battle Creek & Sturgis Railway	9,584 44		9,584 44	168 11	1,920 24	11,672 79	11,672 79		345 35
Bay City & Battle Creek Railway	4,600 84		4,600 84			4,600 84	4,600 84		255 60
Total passenger department earnings	$3,583,811 68	$1,015,182 98	$4,548,994 66	$416,816 55	$260,816 54	$5,226,627 75	$3,191,904 27	$1 15	$8,247 90

FREIGHT EARNINGS.

	Local traffic.	Through traffic.	Total traffic.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$2,074,965 36	$1,752,443 22	$3,827,408 58	,827,408 58	$2,977,63 84		$13,473 47
Leased or proprietary roads:							
Michigan Air Line Railroad	193,188 09	10,047 36	203,235 45	203,235 45	-192,540 71		1,764 81
Joliet and Northern Indiana Railroad	86,426 61	53,027 16	139,453 77	139,453 77			3,098 98
Grand River Valley Railroad	122,126 67	33,685 93	155,812 60	155,813 60	155,812 60		1,859 55
Jackson, Lansing & Saginaw Railroad	1,012,884 14	18,758 69	1,031,587 83	1,031,587 8	1,031,587 83		3,495 72
Kalamazoo & South Haven Railroad	23,608 65	688 37	24,297 02	24,297 02	24,297 02		615 11
Detroit & Bay Ci y Railroad	465,794 24	98,148 83	563,943 07	563,943 07	563,943 07		3,724 36
Toledo, Canada Southern & Detroit Railway	484,270 12	109,424 15	593,694 27	593,694 27	476,305 64		10,076 28
Canada Southern Railway (in Canada)	1,345,078 86	1,884,858 74	3,229,937 60	3,229,937 60			8,524 29
Michigan Midland & Canada Railroad	1,836 90		1,836 90	1,836 90	1,836 90		125 18
Canada Southern Bridge Co.	266 26		266 26	266 26	266 26		72 75
Saginaw Bay & Northwestern Railroad	93,062 29		93,062 29	93,062 29	93,062 29		1,067 10
Battle Creek & Sturgis Railway	8,230 03		8,230 03	8,230 03	8,230 03		243 49
Bay City & Battle Creek Railway	3,541 15		3,541 15	3,541 15	3,541 15		191 17
Total freight department earnings	$5,915,229 37	$3,961,077 45	$9,876,306 82	$9,876,306 82	$5,529,060 34	$1 52	$6,137 32

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Total transportation earnings		$15,102,984 57
Transportation earnings per mile of road	$9,385 25	
Transportation earnings per train mile	1 37	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From other sources	$60,025 60	
Total	$60,025 60	

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

Company.	Total Miscellaneous.	Proportion for Michigan.
Michigan Central Railroad	$43,145 06	$33,565 88
Michigan Air Line Railroad	18 00	12 32
Joliet & Northern Indiana Railroad	143 00	----------
Grand River Valley Railroad	272 00	272 00
Jackson, Lansing & Saginaw Railroad	6,927 75	6,927 75
Kalamazoo & South Haven Railroad	8 00	8 00
Detroit & Bay City Railroad	3,781 76	3,781 76
Toledo, Canada Southern & Detroit Railway	924 54	741 73
Canada Southern Bridge Co.	133 00	133 00
Saginaw Bay & Northwestern Railroad	4 00	4 00
Battle Creek & Sturgis Railway	15 00	15 00
Bay City & Battle Creek Railway	175 01	175 01
Canada Southern Railway (in Canada)	4,488 48	----------

Total earnings from operation of road		$15,162,960 17
Total earnings per mile of road	$9,422 56	
Total earnings per train mile	1 38	
Proportion of taxable earnings for Michigan:		
Michigan Air Line Railroad	$262,840 56	
Jackson, Lansing & Saginaw R. R.	1,602,026 99	
Kalamazoo & South Haven R. R.	57,052 50	
Detroit & Bay City R. R.	839,484 32	
Toledo, Canada Southern & Detroit R'y	632,890 37	
Michigan Midland & Canada R. R.	8,473 44	
Canada Southern Bridge Co.	1,228 69	
Saginaw Bay & Northwestern R. R.	107,816 77	
Battle Creek & Sturgis R'y	19,917 82	
Bay City & Battle Creek R'y	8,817 00	
		3,540,048 46
Total taxable earnings per mile of road in Michigan	$4,426 50	
Income other than from earnings	58,878 46	
Total income from all sources		$15,221,838 63
Proportion of income for Michigan:		
Michigan Air Line R. R.	$262,840 56	
Jackson, Lansing & Saginaw R. R.	1,602,026 99	
Kalamazoo & South Haven R. R.	57,052 50	
Detroit & Bay City R. R.	839,484 32	
Toledo, Canada Southern & Detroit R'y	632,890 37	
Michigan Midland & Canada R. R.	8,473 44	
Canada Southern Bridge Co.	1,228 69	
Saginaw Bay & Northwestern R. R.	107,816 77	
Battle Creek & Sturgis R'y	19,917 82	
Bay City and Battle Creek R'y	8,817 00	
		$3,540,048 46
Main line		4,886,932 79
Grand River Valley R. R.		339,614 81
Total		$8,766,596 06

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,080,894 51
Renewals of rails	97,696 25
Renewals of ties	269,398 75
Repairs of bridges, including culverts and cattle guards	214,841 27
Repairs of fences, road crossings, and signs	158,760 59
Repairs of buildings	246,292 38
Total	$2,068,083 75

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MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$595,678 56
Repairs of passenger cars	307,171 81
Repairs of freight cars	1,155,163 16
Repairs to ferry boats	25,897 63
Total	$2,063,911 16

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$1,195,736 28
Water supply	54,896 33
Oil and waste	69,348 73
Locomotive service	593,845 40
Passenger train service	214,622 05
Passenger train supplies	43,782 97
Mileage of passenger cars	3,991 49
Freight train service	506,553 65
Freight train supplies	42,929 97
Mileage of freight cars	447,722 16
Telegraph expenses (maintenance and operating)	235,750 36
Damage and loss of freight and baggage	30,036 98
Damages to property and cattle	18,105 51
Personal injuries	100,050 08
Agents and station service	1,344,518 94
Station supplies	74,556 04
Detroit river crossing	66,301 74
Total	$5,342,748 68

GENERAL EXPENSES.

Salaries of the general officers of the company	$80,000 00
Salaries of clerks in general offices	185,064 15
Law expenses	53,893 40
Insurance	9,735 31
Stationery and printing	76,133 17
Outside agencies and advertising	285,252 37
Contingencies	119,292 25
Taxes	309,849 01
Total	$1,119,269 66

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	18.70	$2,068,083 75
International bridge tolls	.51	56,323 50
Maintenance of motive power and cars	18.76	2,063,911 16
Conducting transportation	48.10	5,342,748 68
Track rentals and terminals	3.93	436,732 75
General expenses, including taxes	10.00	1,119,269 66
Total operating expenses and taxes	100.00	$11,107,569 50
Operating expenses and taxes per mile of road		$6,902 46
Operating expenses and taxes per train mile run, for trains earning revenue (miles 11,026,635)		1 01
Proportion of operating expenses and taxes for Michigan:		
Main line		$3,504,274 14

Leased or Proprietary Roads.

Michigan Air Line R. R.	$248,702 60
Grand River Valley R. R.	267,619 11
Jackson, Lansing & Saginaw R. R.	1,367,747 88
Kalamazoo & South Haven R. R.	44,379 08
Detroit & Bay City R. R.	505,566 42
Toledo, Canada Southern & Detroit R'y	503,068 34
Michigan Midland & Canada R. R.	15,766 16
Canada Southern Bridge Company	4,166 29
Saginaw Bay & Northwestern R. R.	115,806 81
Battle Creek & Sturgis R'y	22,325 78
Bay City & Battle Creek R'y	13,251 91
Total proportion of expenses for Michigan	$3,613,174 52
Percentage of expenses to earnings	73.25
Net earnings per mile of road	2,520 10
Net earnings per train mile	36.77

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Detroit, Michigan, to Chicago, Illinois, May, 1852.

MAIN LINE.

	Miles.
In Michigan, from Detroit to State line	221.00
In Indiana, from Michigan State line to Illinois State line	43.00
In Illinois, from Indiana State line to Kensington	6.07
Total length completed	270.07
Length of double track on main line	138.40
Total length of road belonging to this company	270.07
Total length of road belonging to this company in Michigan	221.00
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	172.79
Aggregate length of tracks in Michigan belonging to this company, computed as single track	393.79

Gauge of track, 4 feet, 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:	Total Miles.	In Michigan.
Chicago & Kensington	14.00	----
Michigan Air Line Railroad	115.16	109.10
Joliet & Northern Indiana Railroad	45.00	----
Grand River Valley Railroad	83.79	83.79
Jackson, Lansing & Saginaw Railroad	295.10	295.10
Kalamazoo & South Haven Railroad	39.50	39.50
Detroit & Bay City Railroad	151.42	151.42
Saginaw Bay & Northwestern	87.21	87.21
Canada Southern Bridge Company	3.66	3.66
Bay City & Battle Creek Railway	18.00	18.00
Battle Creek & Sturgis Railway	33.80	33.80
Toledo, Canada Southern & Detroit Railway	58.92	47.27
Canada Southern Railway (in Canada)	378.91	----
Michigan Midland & Canada Railroad	14.68	14.68
Total	1,339.15	883.53
Total miles operated by the company	1,609.22	1,104.53

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	201	14,141
Stone	4	451
Iron	35	4,486
Combination	5	3,358
Wooden trestles	77	7,797
Total	322	30,263

Draw Bridges in Michigan.

How many on your line? 10

Where located, when built, and length of draw span:	Feet.
St. Charles, over Bad river, built in 1881	37½
Paines, over Tittabawassee river, rebuilt 1890	108
South of West Bay City, over Saginaw river (west channel and middle ground), 1889	131
South of West Bay City, over Squaconning creek, 1884	34
Bay City, over Saginaw river, 1884	51
East Saginaw, over Saginaw river, 1886	188
Kawkawlin, over Kawkawlin river, 1890	190
Grosse Isle, over Detroit river, 1884	340½
South of Woodmere, over Rouge river, 1887	160
South of Rockwood, over Huron river, 1881	128

Character of structure:
Wood, iron and stone piers.
Material of which constructed:
Wood, iron and stone.
Height above water, and depth of water under bridge:
From 15 to 30 feet.
How swung, by engine or hand power:
9 by hand; 1 by steam.
Approaches straight or curved:
Straight.
Do you require all trains to come to a full stop before crossing a draw, and how are they signaled:
Yes; by bridge tender.

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Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Lake Shore & Michigan Southern Railway at West Detroit, Albion, Kalamazoo, Jackson, Homer, Three Rivers, south end of junction yard Detroit, Woodward avenue, Detroit, and Eaton Rapids.
Wabash Railroad at West Detroit and Delray.
Flint & Pere Marquette Railroad at Wayne Junction, East Saginaw, Otter Lake, Bay City, North Saginaw, South Saginaw, Vassar, and near East Saginaw.
Detroit, Monroe & Toledo Railroad at Detroit.
Grand Trund Railway at Detroit (Woodward avenue).
Detroit, Grand Haven & Milwaukee Railroad at Milwaukee Junction and Owosso.
Pontiac, Oxford & Northern Railroad at Oxford.
Michigan Air Line Railway at Rochester and Jackson.
Chicago & Grand Trunk Railway at Lapeer, Nichols, Charlotte, Lansing, Cassopolis and Jackson.
Saginaw, Tuscola & Huron Railroad at Reese.
Grand Rapids & Indiana Railroad at Kalamazoo and Wasepi.
Saginaw Bay & Northwestern Railroad at Pinconning.
Chicago & West Michigan Railroad at Grand Junction and Grand Rapids.
Detroit Lansing & Northern Railroad at Lansing and North Lansing.
Toledo, Ann Arbor & North Michigan Railway at Owosso Junction, and East Saginaw.
Cincinnati, Jackson & Mackinaw Railroad at Homer.
Chicago, Kalamazoo & Saginaw Railroad at Hastings.
Toledo, Saginaw & Muskegon Railroad at North Saginaw and West Bay City.

What railroads cross your road either over or under your grade in this State and where?
Over:
Toledo, Ann Arbor & North Michigan Railway at Ann Arbor.
Chicago & West Michigan Railway at New Buffalo.
Cincinnati, Jackson & Mackinaw Railroad, two miles east of Augusta.
Under:
Chicago & West Michigan Railway at Niles and two miles south of Niles.
Indiana & Lake Michigan Railway at Galien.

At what crossings are interlocking and derailing switches in operation?
Lake Shore & Michigan Southern Railway at West Detroit, Woodward avenue, Detroit and Albion.
Flint & Pere Marquette Railroad at Wayne Junction, one mile south of Saginaw, one mile north of Saginaw, and Bay City.
Grand Rapids & Indiana Railroad at Wasepi.
Chicago & Grand Trunk Railway at Cassopolis, Nichols, Lansing and Jackson.
Cincinnati, Jackson & Mackinaw Railroad at C., J. & M. crossing.
Chicago, Kalamazoo & Saginaw Railroad at Hastings.
Detroit, Lansing & Northern Railroad, at Grand Rapids.
Cincinnati, Saginaw & Mackinaw Railroad, north and south of West Bay City and north of Saginaw.
Detroit, Grand Haven & Milwaukee Railway at Milwaukee Junction.
What pattern or patterns have you adopted?
Union Switch & Signal Company's.

Number of crossings of highways at grade in this State	1,812
Number of crossings of highways at grade in this State at which there are gates or flagmen	112
Number of crossings at which there are electric or automatic signals	67

What pattern or patterns in use:
Railway Safety Gate Company, Pneumatic Gate Company, Penn. Steel Co. Magnetic.

Number of crossings of highways over or under railroad (over 37, under 17)	54
Number of highway bridges 18 feet above track	28
Number of highway bridges less than 18 feet above track	9
Have safety guards been erected at over-head obstructions	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884	Yes.

How are they treated?
Filled with wooden blocking spiked to the ties.

Stations.

Number of stations on whole line	450
Same in Michigan	300

Employés.

Number persons regularly employed on all roads operated by company, including officials	9,979
Same in Michigan	6,471

Classify your employés as per following list:

	Number
Baggagemen	78
Brakemen	618
Conductors	340
Engineers	525
Firemen	550
Laborers	2,523
Shopmen	946
Yardmen	695
Others	3,704

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you	1,970
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
Bay City	5
Gladwin	34
Total miles required	39

Road Bed and Track.

Number of track sections in Michigan	248
Average lengths of sections (miles)	4.45
Average number of men in each section gang	4
Number of new ties put in whole line during the year	759,543
Number of new ties put in track in Michigan	523,376
Average number of new ties per mile of road	480
New rails put in track, steel (tons 2,362).	
Total miles of track laid with new rails	18.88

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	284
Timber culverts replaced during the year, 12.	
With iron pipe, number	12

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		366	$2,483,250 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		55	206,600 00
Total		421	$2,689,850 00
Number of passenger cars—12 wheel, including official cars		12	$107,500 00
Number of passenger cars—8 wheel, including official cars		203	595,900 00
Number of express and baggage cars		95	188,200 00
Number of box freight cars		7,911	2,679,375 00
Number of stock cars		1,454	427,625 00
Number of platform cars		3,208	725,250 00
Number of ore cars		473	118,250 00
Number of conductors' way cars		248	111,600 00
Other cars as follows:			
Boarding	28		
Derrick	7		
Pile drivers	2		
Steam shovels	5		
Snow plows	5		
Rail saws	1		
Tool	68		
Stone	48		
Oil tanks	32		
Log trucks	52		
		248	120,200 00
Total		13,852	$5,068,800 00

Number of locomotives equipped with power brakes	206
Number of passenger train cars equipped with power brakes	310
Number of freight cars equipped with power brakes	789
What patterns of power brakes have you in use, and number of locomotives and cars with each:	
Cars, Westinghouse	1,049
Locomotives, Westinghouse, 155; American steam driver, 51	206

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
They are.
What pattern or patterns have you adopted for use?
Gould.
How are your passenger cars heated?
Hot water and steam.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	4,416,661
Miles run by freight trains during the year	6,120,250
Miles run by mixed trains	489,724
Total mileage of trains earning revenue	11,026,635

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Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	114,220		
Number of local passengers carried	3,397,664		
Total number of passengers carried	3,511,884		
Total passenger mileage, or passengers carried one mile	203,290,934		
Average distance traveled by each passenger		57.6018	
Average amount received from each passenger			$1 29.53
Average rate of fare per mile for through passengers			02.0408
Average rate of fare per mile for local passengers			02.3165
Average rate of fare per mile for all passengers			02.2487

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	1,612,866		
Number of tons of local freight carried	5,608,136		
Total tons of freight carried	7,221,002		
Total mileage of through freight		717,439,530	
Total mileage of local freight		650,763,805	
Total freight mileage or tons carried one mile		1,368,203,335	
Average ton haul for through freight		445	
Average ton haul for local freight		116	
Average ton haul for all freight		189	
Average amount received for each ton haul			$1 37
Average rate per ton per mile received for through freight			00.552
Average rate per ton per mile received for local freight			00.909
Average rate per ton per mile received for all freight			00.722

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	175,480
Flour	120,041
Provisions (beef, pork, lard, etc.)	64,949
Animals	47,701
Other agricultural products	122,365
Lumber and forest products	1,842,949
Coal	48,682
Plaster, lime and cement	17,084
Salt	128,158
Petroleum	12,653
Railroad iron, iron and steel rails	769
Pig and bloom iron	14,185
Other iron and castings	45,982
Ores	379
Stone, brick and sand	156,163
Manufactures—articles shipped from point of production	284,200
Merchandise and other articles not enumerated above	265,293
Total forwarded	3,347,034

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	693,113	9.60
Flour	178,806	2.47
Provisions (beef, pork, lard, etc.)	323,630	4.48
Animals	208,464	2.89
Other agricultural products	322,787	4.47
Lumber and forest products	2,101,623	29.11
Coal, coke and charcoal	892,169	12.35
Plaster, lime and cement	31,924	.44
Salt	170,941	2.37
Petroleum	138,418	1.92
Railroad iron, iron and steel rails	5,248	.07
Pig and bloom iron	104,880	1.45
Other iron and castings	107,919	1.50
Ores	2,015	.03
Stone, brick and sand	422,883	5.85
Manufactures—articles shipped from point of production	665,096	9.21
Merchandise and other articles not enumerated above	851,601	11.79
Total tons carried	7,221,002	100.00

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

The American Express Company do an express business over the lines of the Michigan Central Railroad Company, paying the following rates for transportation of their freight:

Chicago to Buffalo, through freight, 80c. per cwt.
Chicago to Buffalo, New York produce, 50c. per cwt.
Chicago to Detroit, fruit, 30c. per cwt.
Buffalo to Lansing, Niles, Three Rivers, Hammond, Jackson, Cassopolis, Michigan City, Battle Creek, Kalamazoo, Charlotte, Grand Rapids, Wasepi, South Bend, Joliet and New Buffalo, on business originating at New York and Boston, 30c. per cwt.
Mackinaw City to Detroit, venison, 60c. per cwt.
Indian River to Bay City, berries, 40c. per cwt.
Cheboygan to Bay City, fish, 40c. per cwt.
Cheboygan to Chicago, fish, $1.00 per cwt.
Local freight on main line, Detroit to Chicago; local freight on Air Line Division, Jackson to South Bend; local freight on Grand Rapids Division, Rives Junction to Grand Rapids; local freight on Saginaw Division, Jackson to Mackinaw City; local freight on South Haven Division, Kalamazoo to South Haven; local freight on Battle Creek Division, Battle Creek to Findley—7c. per ton per mile.
Bay City Division, Detroit to Bay City. Produce, first-class freight rates. Fish and fruit, first-class freight rates with 10 per cent added. Merchandise, one and one-half first class freight rates.
Messenger's fare $6.50 per pay excepting on the Saginaw branch, which is $25.00 per month.
Toledo Division, Detroit to Toledo. Merchandise, one and one-half first class freight rates. Special freight, first-class freight rates with 10 per cent added. Messenger's fare, $3.30 per day.
Canada Division, Buffalo to Detroit and freight therefrom to Toledo Division.
Buffalo to Toledo, 60c. per cwt.
Toledo to Buffalo, produce, 44c. per cwt.
Toledo to Buffalo, eastern freight, 46.27c per cwt.
Toledo to Buffalo, local, 46.27c. per cwt.
Detroit to Buffalo, local, 41.25c. per cwt.
Detroit to Buffalo, produce, 30.25c. per cwt.
Buffalo to St. Thomas, 24c. per cwt.
Detroit to St. Thomas, 24c. per cwt.
Local freight in Canada, first, one and one-half first class freight rates. Special, first-class freight rates with 10% added.
Niagara Division, Niagara to Chippewa, 14c. per cwt.
Clifton to Niagara, 15c. per cwt.
Midland Division, St. Clair to Lenox, 10c. per cwt.
Buffalo to Chicago, New York freight consigned to American Express Company, 40c. per cwt.
Empty packages returned on all Divisions at one-half regular rates.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

Michigan Central Railroad Co.	1,284.10
Michigan Central Railroad and Western Union Telegraph Co. (jointly)	279.00
Western Union Telegraph Co.	5,213.00
Canada Southern Railway Co.	1,163.71
Great Northwestern Telegraph Co.	352.60
Total	8,292.41

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report:

Pullman Palace Car Co., Chicago, Ill.	$445 50
Wagner Palace Car Co., New York City	None.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Cannot furnish this information; the amount, however, is small.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 5, Taylor, W., conductor, Detroit. Struck by train; carelessness.
January 24, Dailey, A. H., conductor, Decatur. Fell off train; carelessness.
January 24, Clay, Henry, tramp, Inkster. Run over; carelessness.
January 26, unknown man, tramp, Bay City. Run over; carelessness.

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February 17, McDonald, Pat, tramp, Ypsilanti. Stealing ride; carelessness.
February 22, Zegrast, J. A., section foreman, Carrollton. Struck by train; lack of caution.
February 19, Ross, Robert, citizen, Bowen. Driving across track; carelessness.
March 9, Purdie, Thos., switchman, Junction Yards. Coupling; carelessness.
March 30, Whittaker, Chris., citizen, Saginaw. Jumping off train 71; carelessness.
April 22, Stevenson, Frank, trespasser, West Branch; struck by train; carelessness.
May 2, Post, Jacob, trespasser, Trumbulls. Struck by train; carelessness.
May 20, Koehler, Wm., citizen, Detroit. Driving across track; lack of caution.
May 30, Anthony, Geo. L., brakeman, Jackson. Coupling; carelessness.
June 1, Beck, Jos., tramp, Ann Arbor. Jumping on train; carelessness.
June 5, unknown man, tramp, Niles. Stealing ride; carelessness.
June 16, Foley, Pat., trespasser, Battle Creek. Struck by train; carelessness.
June 11, unknown man, trespasser, Charlotte. Struck by train; carelessness.
June 11, unknown man, trespasser, Marshall. Struck by train; carelessness.
June 16, Huntington, Geo., trespasser, Three Oaks. Struck by train; carelessness.
June 30, Italian laborer 119, Lawton. Struck by way car; accidental.
July 2, Blake, Jas., brakeman, Ann Arbor. Coupling; carelessness.
July 29, Williams, Merritt, boy, Mason. Run over by train 73; carelessness.
August 1, Olds, Frank, trespasser, West Branch. Struck by train; carelessness.
August 30, Rothmund, W., and child, trespassers, Dearborn. Struck by train; lack of caution.
September 5, Collins, Dan., laborer, Shanghai Pit. Collision; accidental.
September 15, Mack, Jas., trespasser, Sibley's. Stealing ride; carelessness.
September 17, Parker, Earle, boy, Saginaw. Struck by engine; carelessness.
September 19, Welch, W. C., citizen, Mason. Driving across track; lack of caution.
October 30, Tobias, Jas., citizen, Lansing. Driving across track; lack of caution.
November 17, McCluskey, J., brakeman, Grass Lake. Fell off train; lack of caution.
November 20, Sughler, Wm., trespasser, Summit. Run over; carelessness.
November 21, Thorp, Milo R., brakeman, Concord. Fell off train; lack of caution.
November 21, Hopp, Jno., trespasser, Lansing. Run over; carelessness.
November 28, Pease, Mrs. Chas., Kalamazoo. Struck by train; lack of caution.
November 29, Swanzie, Carl, trespasser, Buchanan. Found dead on track; carelessness.
December 2, unknown man, trespasser, Chelsea. Struck by train; carelessness.
December 7, Connors, Jno., section hand, Galien. Struck by train; carelessness.
December 12, unknown man, trespasser, Thomas. Struck by train; carelessness.
December 15, unknown man, trespasser, Ecorse. Struck by train; carelessness.
December 15, Marvin, Jas., brakeman, Three Rivers. Fell off train; lack of caution.
December 17, unknown man, trespasser, Detroit. Struck by train; carelessness.
December 27, Schuoltz, Henry, boy, Bay City. Playing around cars; carelessness.
December 27, Taylor, John, trespasser, Burlington. Struck by train; carelessness.

INJURED.

January 3, boy named Metts, Ann Arbor. Stealing ride; carelessness.
January 7, Green, E., brakeman, Detroit. Coupling; carelessness.
January 10, Beckwith, C., brakeman, Detroit. Coupling; carelessness.
February 14, McDonald, D., section foreman, St. Helens. Struck by train; lack of caution.
February 26, Bennett, W., switchman, Detroit. Coupling; carelessness.
March 1, Hainsworth, H., brakeman, Bay City. Coupling; carelessness.
March 4, Mc Donald, Thos., switchman, Junction Yards. Leg caught between rail and piece of ice; accidental.
March 4, Robertson, Wm., brakeman, Oxford. Knocked down on top of car; lack of caution.
March 10, Haaf, Gustavus, trespasser, River Rouge bridge. Struck by train; carelessness.
March 17, Graham, Wm., Hauptman Branch. Foot squeezed between cars; carelessness.
March 20, Green, Ed., brakeman, Detroit. Coupling; carelessness.
March 25, Griest, W. T., brakeman, Lansing. Caught between cars while climbing down; carelessness.
March 30, Alwood, Nelson, boy, Lapeer. Stealing ride; carelessness.
April 10, Graham, O., brakeman, Hunter's Creek. Foot squeezed between cars; carelessness.
April 23, Tyson, Sam'l, boy, Kalamazoo. Stealing ride; carelessness.
May 8, Kuschinski, Gus., brakeman, West Branch. Coupling; carelessness.
May 6, Dearborn, H., brakeman, Wasepi. Coupling; carelessness.
May 13, Gee, Geo., brakeman, Alger. Coupling; carelessness.
May 14, Williams, Fred., trespasser, Wayne. Stealing ride; carelessness.
May 15, Winders, Otto, trespasser, W. Detroit. Jumping on engine; carelessness.
May 20, Koehler, Richard, boy, Detroit. Driving across tracks; lack of caution.
May 23, Messler, J., switchman, Jackson Junction. Coupling; carelessness.
May 25, Lahey, John, boy, Detroit. Stealing ride; carelessness.
May 29, King, R., brakeman, Lapeer. Caught between car and coal house; lack of caution.
June 3, Webb, W. E., operator, Middleville. Fell off cars; lack of caution.
June 8, Reynolds, Jno., brakeman, Waters. Coupling; carelessness.
June 11, Boaterman, J., brakeman, Oxford. Coupling; carelessness.
July 1, Fox, L. A., brakeman, Beaver Lake. Fell off train; lack of caution.
July 15, Unruh, Ed., brakeman, Monroe. Run over; lack of caution.
August 9, unknown woman, W. Detroit. Run over; carelessness.
August 29, Izzo, Ralph, Italian, Saginaw. Run over; carelessness.
September 5, Kailsen, Thos., trespasser, Detroit. Climbing between cars; carelessness.
September 7, Flyne, Thos., passenger, Warren. Fell between cars.
September 10, Griest, E., brakeman, Parma. Coupling; carelessness.
September 14, Delano, Fred, trespasser, Gaylord. Stealing ride; carelessness.
September 19, Curey, S., citizen, Mason. Driving across track; lack of caution.
September 19, Avery, F., citizen, Mason. Driving across track; lack of caution.
September 21, Fletcher, David, switchman, Jackson. Coupling; carelessness.
September 22, Webber, F., Brakeman, Otter Lake. Fell off train; lack of caution.
October 20, Kirckie, Terry, citizen, W. Bay City. Driving across track; lack of caution.
October 25, Spencer, Clifford, boy, Jackson Junction. Stealing ride; carelessness.
October 30, Leslie, John, conductor, Dowagiac. Coupling; carelessness.
October 31, McCann, P., switchman, Junction Yards. Coupling; carelessness.
November 1, Davis, Wm., switchman, Detroit. Coupling; carelessness.

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November 5, Cogswell, J., brakeman, Delhi. Coupling, carelessness.
November 9, Eggleston, G., brakeman, Albion. Coupling; carelessness.
November 20, Kerner, Chas., car cleaner, Detroit. Run over; lack of caution.
December 7, unknown man, trespasser, Leoni. Struck by train; carelessness.
December 14, Woodburn, Jas., switchman, Mackinaw. Coupling; carelessness.
December 15, Leank, Geo., trespasser, Jackson Junction. Stealing ride; carelessness.
December 23, Klopp, Philip, conductor, Pinconning. Blocking logs; accidental.
December 24, Palmer, Alfred, trespasser, Wayne Junction. Struck by train; carelessness.
December 24, Olburg, Jno., trespasser, Vanderbilt. Stealing ride.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		1				
Coupling cars		3			20	
Derailments						
Falling from trains		3		1	4	
Frogs						
Getting on and off trains	1	2			2	2
Highway crossings			6			4
Miscellaneous		1			7	
Overhead obstructions						
Trespassers on trains			5			9
Trespassers on tracks			22			4
Total	1	10	33	1	33	19

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	44
Number of persons injured during the year	53
Number of casualties purely accidental	8
Number resulting from lack of caution, carelessness or misconduct	63
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured	30

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	5	20	25
Conductors	2	2	4
Engineers			
Firemen			
Laborers	2	1	3
Shopmen			
Yardmen	1	7	8
Not classified above	2	1	3
Total	13	31	43

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, president, and D. A. Waterman, auditor, of the Michigan Central Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, H. B. LEDYARD, *President.*
D. A. WATERMAN, *Auditor.*

Subscribed and sworn to before me this 11th day of March, A. D., 1892.

[L. S.] JOHN F. PETERS,
Notary Public, Wayne Co., Michigan.

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ANNUAL REPORT

OF THE

BAY CITY & BATTLE CREEK RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich.
Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.
Vice President, HENRY RUSSEL, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York, N. Y.
E. D. WORCESTER, New York, N. Y.
HUGH MCMILLAN, Detroit, Mich.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 14, 1889.
Date of annual meeting of stockholders—First Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

REMARKS.

The stock is owned and the road operated by the Michigan Central Railroad Company.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares	$100 00		
Average price received per share	100 00		
Number of shares issued	3,000		
Amount paid in on common		$300,000 00	
Total amount paid in as per books of the company			$300,000 00
Paid in per mile of road (miles 18)			$16,666 66

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, Dec. 1, 1889	3%	Dec. 1, 1989	New York	$250,000 00
Total funded debt				$250,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$250,000 00
Total debt liabilities	250,000 00
Amount of debt liabilities per mile of road (18 miles)	13,888 88
Total amount of stock and debt	550,000 00
Stock and debt per mile of road	30,555 54

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$7,500 00

COST OF ROAD AND EQUIPMENT.

This road was built by a former company, the records of which cannot be found, making it impossible to furnish this information.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
West Bay City to Midland December 27, 1889.

MAIN LINE.

	Miles.
Length completed in Michigan	18.00
Total length completed	18.00
Total length of road belonging to this company	18.00
Total length of road belonging to this company in Michigan	18.00
Aggregate length of sidings, spurs and other tracks not above enumerated	1.78
Same in Michigan	1.78
Aggregate length of tracks belonging to this company computed as single track	19.78
Same in Michigan	19.78

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, president, and D. A. Waterman, secretary, of the Bay City & Battle Creek Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, H. B. LEDYARD, *President.*
[L. S. OF R. R.] D. A. WATERMAN, *Secretary.*

Subscribed and sworn to before me this 11th day of March, A. D., 1892.
[L. S.]

JOHN F. PETERS,
Notary Public Wayne Co. Mich.

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ANNUAL REPORT

OF THE

BATTLE CREEK & STURGIS RAILWAY COMPANY.

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich.
Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich
Vice President, HENRY RUSSEL, Detroit, Mich.

DIRECTORS.

E. C. NICHOLS, Battle Creek, Mich.
C. VANDERBILT, New York, N. Y.
E. D. WORCESTER, New York, N. Y.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 14, 1889.
Date of annual meeting of stockholders—First Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

REMARKS.

The stock is owned and the road operated part by the Lake Shore & Michigan Southern and part by the Michigan Central Railroad Companies.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares	$100 00		
Average price received per share	100 00		
Number of shares issued	5,000		
Amount paid in on common		$500,000 00	
Total amount paid in as per books of the company			$500,000 00
Paid in per mile of road (miles, 41.00)			$12,195 12

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
First mortgage, December 1, 1889	3 per cent	Dec. 1, 1989	New York	$500,000 00
Total funded debt				$500,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$500,000 00
Total debt liabilities	500,000 00
Amount of debt liabilities per mile of road (41miles)	12.195 12
Total amount of stock and debt	1,000,000 00
Stock and debt per mile of road	24,390 24

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$15,000 00

COST OF ROAD AND EQUIPMENT.

This road was built by a former company the records of which cannot be found, making it impossible to furnish this information.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
January, 1889.

MAIN LINE.

	Miles.
Length completed in Michigan, Battle Creek to Findley (operated by M. C. R. R. Co.)	33.80
Length completed in Michigan, Findley to Sturgis (operated by L. S. & M. S. R'y)	7.20
Total length completed	41.00
Total length of road belonging to this company	41.00
Total length of road belonging to this company in Michigan	41.00
Aggregate length of sidings, spurs and other tracks not above enumerated	5.44
Same in Michigan	5.44
Aggregate length of tracks belonging to this company, computed as single track	46.44
Same in Michigan	46.44

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, president, and D. A. Waterman, secretary, of the Battle Creek & Sturgis Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company; and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, H. B. LEDYARD, *President.*
[L. S. OF R. R.] D. A. WATERMAN, *Secretary.*

Subscribed and sworn to before me this 11th day of March, A. D., 1892.

[L. S.] JOHN F. PETERS,
Notary Public, Wayne Co., Mich.

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ANNUAL REPORT

OF THE

CANADA SOUTHERN BRIDGE COMPANY.

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.
Secretary and Treasurer, CHARLES F. COX, New York.
Transfer Agent, F. MIDDLEBROOK, New York.

DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y.
WILLIAM K. VANDERBILT, New York, N. Y.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CHARLES F. COX, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
EDWARD A. WICKES, New York, N. Y.
CHAUNCEY M. DEPEW, New York, N. Y.
HENRY B. LEDYARD, Detroit, Mich.
Terms expire June, 1892.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—consolidated, August 20, 1873.
Number of stockholders at date of last election 14
Number of stockholders in Michigan at same date 2
Amount of full paid stock held in Michigan at same date—55 shares.
Date of annual meeting of stockholders—First Thursday after first Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Michigan.

REMARKS.

The stock is controlled by the Canada Southern Railway Company and the road, bridge, etc., are operated by the Michigan Central Railroad Company, as part of the Canada Southern system of roads, under an agreement for joint operation, made December 12, 1882, between the Michigan Central and Canada Southern Companies.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,500,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	4,500		
Amount paid in			$450,000 00
Shares not issued	10,500		
Total amount paid in as per books of the company			$450,000 00

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st m't'g coupon bonds, Feb. 1, 1874	7 per cent	Feb. 1, 1904	New York	$1,000,000 00
Total funded debt				$1,000,000 00

UNFUNDED DEBT.

For interest on bonds	$1,190,000 00
For current balances	77,300 72
Total unfunded debt	$1,267,300 72

RECAPITULATION.

Total funded debt	$1,000,000 00
Total unfunded debt	1,267,300 72
Total debt liabilities	$2,267,300 72
Total amount of stock and debt.	2,717,300 72

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$70,000 00

Was it paid for the last year? No.
Coupons due 1875 to 1891 inclusive at $70,000.00 per annum.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$1,780,977 05

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
September, 1873.

MAIN LINE.

	Miles.
Length completed in Michigan	3.66
Total length completed	3.66
Total length of road belonging to this company	3.66
Total length of road belonging to this company in Michigan	3.66
Aggregate length of sidings, spurs, and other tracks not above enumerated	5.32
Same in Michigan	5.32
Aggregate length of tracks belonging to this company, computed as single track	8.98
Same in Michigan	8.98

Gauge of track 4 feet 8½ inches.

STATE OF NEW YORK, }
COUNTY OF NEW YORK. } ss.

Charles F. Cox, Secretary and Treasurer of the Canada Southern Bridge Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] C. F. COX, *Secretary and Treasurer.*

Subscribed and sworn to before me this 15th day of March, A. D. 1892.

[L. S.] EDGAR FREEMAN,
Notary Public.

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ANNUAL REPORT

OF THE

DETROIT & BAY CITY RAILROAD COMPANY.

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, C. VANDERBILT, New York City.
Secretary and Treasurer, E. D. WORCESTER, New York City.
Vice President, H. B. LEDYARD, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York City.
W. K. VANDERBILT, New York City.
H. B. LEDYARD, Detroit, Mich.
C. M. DEPEW, New York City.
SAMUEL F. BARGER, New York City.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—May 21, 1871.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	4
Amount of full paid stock held in Michigan at same date	400

Date of annual meeting of stockholders—First Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Michigan and New York City.

REMARKS.

Under an agreement dated March 10, 1881, the Detroit & Bay City Railroad Co. transferred the possession and control of its railroad and property to the Michigan Central Railroad Co. The latter company agree to operate the same during its corporate existence. Under the terms of this agreement the Michigan Central Railroad Company is authorized and agrees to issue its bonds to the amount of $4,000,000, and both companies have joined in the execution of a mortgage upon all the Detroit & Bay City Railroad Company's property to secure the payment of said bonds.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$2,000,000 00
Par value of shares	$100 00		
Average price received per share	100 00		
Number of shares issued	20,000		
Amount paid in on common		$2,000,000 00	
Total amount paid in as per books of the company			$2,000,000 00
Paid in per mile of road owned by company—miles 146.32			$13,668 67

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of $4,000,000, secured by a first mortgage on the property of this company.

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total amount of stock and debt	$2,000,000 00
Stock and debt per mile of road	13,668 67

COST OF ROAD AND EQUIPMENT.

Included in the report of the Michigan Central Railroad Company.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
Detroit to Bay City, July 21, 1873.

MAIN LINE.

	Miles.	Miles.
Length completed in Michigan	109.00	
Total length completed		109.00

Branches.

Saginaw branch, from Denmark Junction to East Saginaw	16.75	
Caro branch, Vassar to Caro	12.75	
Detroit Belt Line	4.39	
Bay City Belt Line	3.43	
Total length of branches owned by company	37.32	
Total length of branches owned by company in Michigan		37.32
Total length of road belonging to this company		146.32
Total length of road belonging to this company in Michigan	146.32	
Leased Bay City Street Railway 5.10		
Aggregate length of sidings, spurs and other tracks not above enumerated	52.79	
Same in Michigan		52.79
Aggregate length of tracks belonging to this company computed as single track	199.11	
Same in Michigan		199.11

Gauge of track 4 feet 8½ inches.

STATE OF NEW YORK, }
COUNTY OF NEW YORK. } ss.

C. Vanderbilt, president, and E. D. Worcester, secretary, of the Detroit & Bay City Railroad Company, being duly sworn, depose and say, that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, C. VANDERBILT, *President.*
[L. S. OF R. R.] E. D. WORCESTER, *Secretary.*

Subscribed and sworn to before me this 7th day of March, A. D., 1892.
[L. S.]

D. W. PARDEE,
Notary Public, Kings Co. N. Y.

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ANNUAL REPORT

OF THE

GRAND RIVER VALLEY RAILROAD COMPANY.

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Vice President, W. H. WITHINGTON, Jackson, Mich.
Secretary and Treasurer, E. W. BARBER, Jackson, Mich.

DIRECTORS.

AMOS ROOT,* Jackson, Mich.
E. W. BARBER, Jackson, Mich.
W. H. WITHINGTON, Jackson, Mich.
ALONZO BENNETT, Jackson, Mich.
E. S. LACEY, Charlotte, Mich.
HOMER G. BARBER, Vermontville, Mich.
NATHAN BARLOW, Hastings, Mich.

Terms expire October, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May 4, 1846.

Number of stockholders at date of last election	45
Number of stockholders in Michigan at same date	26
Amount of full paid stock held in Michigan at same date	$314,850

Date of annual meeting of stockholders,—First Monday in October.
Fiscal year of company ends,—December 31.
General offices of the company are located at Jackson, Mich.

REMARKS.

The Grand River Valley Railroad is leased and operated by the Michigan Central Railroad Company under a perpetual agreement, the latter company having assumed all obligations and having entire control of the road.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares		$50 00	
Average price received per share		50 00	
Number of shares issued	9,824		
Amount paid in on common			$491,200 00
Total amount paid in as per books of the company			$491,200 00
Paid in per mile of road owned by company			$8,862 27

* Died since last election.

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage to secure a like sum of Michigan Central bonds	6%	Sept. 1, 1909	New York City	$1,500,000 00
Total funded debt				$1,500,000 00

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$1,500,000 00
Total debt liabilities	1,500,000 00
Amount of debt liabilities per mile of road (83.79 miles)	17,900 00
Total amount of stock and debt	1,991,200 00
Stock and debt per mile of road	23,762 27

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$90,000 00

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

*Total expended for construction	$2,867,053 00
Average cost per mile of road (not included in sidings, 83.79 miles)	34,229 17
Proportion of cost of construction for Michigan	2,867,053 00

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
1870.

MAIN LINE.

	Miles.
Length completed in Michigan	83.79
Total length completed	83.79
Total length of road belonging to this company	83.79
Total length of road belonging to this company in Michigan	83.79
Aggregate length of sidings, spurs, and other tracks not above enumerated	15.87
Aggregate length of tracks belonging to this company, computed as single track	99.66
Same in Michigan	99.66

Gauge of track, 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF JACKSON. }

W. H. Withington, Vice President, and E. W. Barber, Secretary, of the Grand River Valley Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

W. H. WITHINGTON, *Vice President.*
E. W. BARBER, *Secretary.*

Subscribed and sworn to before me this 25th day of February, A. D. 1892.

[L. S.]

ALBERT M. WALKER,
Notary Public, Jackson Co., Mich.

* $1,500,000 of this included in the report of the Michigan Central Railroad Company as expended on account of leased lines.

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ANNUAL REPORT

OF THE

JACKSON, LANSING & SAGINAW RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HENRY A. HAYDEN, Jackson, Mich.
Secretary, ORLANDO M. BARNES, Lansing, Mich.
Treasurer, WM. D. THOMPSON, Jackson, Mich.
General Manager, HENRY PRATT, New York City.

DIRECTORS.

CORNELIUS VANDERBILT, New York City.
JAMES F. JOY, Detroit, Mich.
HENRY B. LEDYARD, Detroit, Mich.
HENRY A. HAYDEN, Jackson, Mich.
WM. D. THOMPSON, Jackson, Mich.
PETER B. LOOMIS, Jackson, Mich.
ORLANDO M. BARNES, Lansing, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—February 23, 1864.

Number of stockholders at date of last election	83
Number of stockholders in Michigan at same date	21
Amount of full paid stock held in Michigan at same date	$1,806,600 00

Date of annual meeting of stockholders—Second Tuesday of January.
Fiscal year of company ends—Calender year.
General offices of the company are located at Lansing.

REMARKS.

The Michigan Central Railroad Company operates the company's road under an agreement which went into operation September 1, 1871.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$2,500,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	20,000		
Amount paid in on common			$2,000,000 00
Shares not issued	5,000		
Total amount paid in as per books of the company			$2,000,000 00
Paid in per mile of road owned by company			$6,777 38

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Consolidated mortgage bonds	8 %	Sept. 1, 1891	New York	$41,000 00
Consolidated mortgage bonds	5 %	Sept. 1, 2001	New York	1,424,000 00
Bonds of May 1, 1881	5 %	Sept. 1, 2001	New York	851,000 00
Bonds of May 1, 1881	6 %	Sept. 1, 1891	New York	9,000 00
Total funded debt				$2,325,000 00

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$2,325,000 00
Total debt liabilities	2,325,000 00
Amount of debt liabilities per mile of road	7,878 70
Total amount of stock and debt	4,325,000 00
Stock and debt per mile of road	14,656 05

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year:
The interest is 8% on the $41,000; 5% on the $1,424,000; 5% on the $851,000; 6% on the $9,000.
Was it paid for the last year?
It was.

COST OF ROAD AND EQUIPMENT.

Cannot state as the Michigan Central Company paid considerable in addition to that paid by this company as stated.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
December 31, 1882.

MAIN LINE.

	Miles
Length completed in Michigan	295.10
Total length completed	295.10
Total length of road belonging to this company	295.10
Total length of road belonging to this company in Michigan	295.10
Aggregate length of sidings, spurs and other tracks not above enumerated	200.72
Same in Michigan	200.72
Aggregate length of tracks belonging to this company computed as single track	495.82
Same in Michigan	495.82

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF INGHAM. }

Orlando M. Barnes, secretary of the Jackson, Lansing & Saginaw Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, ORLANDO M. BARNES, *Secretary.*

Subscribed and sworn to before me this 22d day of February, A. D., 1891.

C. J. DAVIS,
Notary Public, Ingham Co. Mich.

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ANNUAL REPORT

OF THE

KALAMAZOO & SOUTH HAVEN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich.
Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.
General Manager, H. B. LEDYARD, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York City.
ASHLEY POND, Detroit, Mich.
H. B. LEDYARD, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
JAMES CLEMENTS, Ann Arbor, Mich.
F. S. WINSTON, Chicago, Ill.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—April 15, 1869.

Number of stockholders at date of last election	199
Number of stockholders in Michigan at same date	124
Amount of full paid stock held in Michigan at same date	$325,100

Date of annual meeting of stockholders,—Second Wednesday in March.
Fiscal year of company ends, December 31.
General offices of the company are located at Detroit, Mich,

REMARKS.

Leased to the Michigan Central Railroad Company July 1, 1870, and is operated by it.
The Michigan Central Railroad Company owns a majority of the capital stock.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$500,000 00
Par value of shares	$100 00		
Average price received per share	100 00		
Number of shares issued	3,254		
Amount paid in on common		$325,400 00	
Total amount paid in, as per books of the company			$325,400 00
Paid in per mile of road owned by company—miles, 39.50			$8,237 97

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of $700,000 secured by a first mortgage on the property of this company, and pays the interest thereon.

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total amount of stock and debt	$325,400 00
Stock and debt per mile of road	8,237 97

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$325,400 00
Average cost per mile of road (not included in sidings, 39.50 miles)	$8,237 97
Proportion of cost of construction for Michigan	$325,400 00

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
January 2, 1871.

MAIN LINE.

	Miles.
Length completed in Michigan	39.50
Total length completed	39.50
Total length of road belonging to this company	39.50
Total length of road belonging to this company in Michigan	39.50
Aggregate length of sidings, spurs, and other tracks not above enumerated	4.21
Same in Michigan	4.21
Aggregate length of tracks belonging to this company, computed as single track	43.71
Same in Michigan	43.71

Gauge of track, 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, General Manager, and D. A. Waterman, Secretary, of the Kalamazoo & South Haven Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

H. B. LEDYARD, *General Manager.*
D. A. WATERMAN, *Secretary.*

Subscribed and sworn to before me this 11th day of March, A. D. 1892.

[L. S.]

JOHN F. PETERS,
Notary Public, Wayne Co., Mich.

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ANNUAL REPORT

OF THE

MICHIGAN AIR LINE RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich.
Vice President, ASHLEY POND, Detroit, Mich.
Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York City.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
E. D. WORCESTER, New York City.
J. W. FRENCH, Three Rivers, Mich.
D. A. WATERMAN, Detroit, Mich.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—July 14, 1868, and March 19, 1870.
Date of annual meeting of stockholders—Third Wednesday in October.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

The Michigan Central now owns a majority of the stock and controls the property. The books were received in such an imperfect condition that the present management is unable to furnish all the information required by this form.

REMARKS.

This property is under perpetual lease to the Michigan Central Railroad Company and has been so since its construction.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$4,000,000 00
Par value of shares	$50 00	
Number of shares issued	7,855¼	

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of $2,600,000, secured by a first mortgage on the property of this company and pays the interest thereon.

UNFUNDED DEBT.

None.

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
January, 1871.

MAIN LINE.

	Miles.
Length completed in Michigan	109.10
Length completed in Indiana	6.06
Total length completed	115.16
Total length of road belonging to this company	115.16
Total length of road belonging to this company in Michigan	109.10
Aggregate length of sidings, spurs and other tracks not above enumerated	22.77
Same in Michigan	20.98
Aggregate length of tracks belonging to this company computed as single track	137.93
Same in Michigan	130.08

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, president, and D. A. Waterman, secretary, of the Michigan Air Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,
H. B. LEDYARD, *President.*
[L. S. OF R. R.] D. A. WATERMAN, *Secretary.*

Subscribed and sworn to before me this 11th day of March, A. D., 1892.

[L. S.] JOHN F. PETERS,
Notary Public, Wayne Co. Mich.

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ANNUAL REPORT

OF THE

MICHIGAN MIDLAND AND CANADA RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.
Secretary and Treasurer, CHARLES F. COX, New York.
Transfer Agent, F. MIDDLEBROOK, New York.

DIRECTORS.

CORNELIUS VANDERBILT, New York.
WILLIAM K. VANDERBILT, New York.
JAMES TILLINGHAST, Buffalo.
SAMUEL F. BARGER, New York.
CHARLES F. COX, New York.
EDWIN D. WORCESTER, New York.
EDWARD A. WICKES, New York.
CHAUNCEY M. DEPEW, New York.
CHARLES C. CLARKE, New York,
Terms expire June, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—September 17, 1872.
Number of stockholders at date of last electon 29
Number of stockholders in Michigan at same date 3
Amount of full paid stock held in Michigan at same date,—107 shares.
Date of annual meeting of stockholders—First Thursday after first Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$4,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	3,000		
Amount paid in on common			$300,000 00
Shares not issued	1,000		
Total amount paid in, as per books of the company			$300,000 00
Paid in per mile of road owned by company (miles, 14.68)			$20,435 96

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage coupon bonds, dated July 1, 1873, and scrip	7%	July 1, 1900, interest July and January	New York	$323,635 00
Total funded debt				$323,635 00

UNFUNDED DEBT.

For miscellaneous (interest on bonds)	$394,555 00
For current balances	56,753 14
Total unfunded debt	$451,308 14

RECAPITULATION.

Total funded debt	$323,635 00
Total unfunded debt	451,308 14
Total debt liabilities	$774,943 14
Amount of debt liabilities per mile of road (14.68 miles)	52,789 00
Total amount of stock and debt	$1,074,943 14
Stock and debt per mile of road (14.68 miles)	73,225 00

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?		$22,610 00
Was it paid for the last year?		No.
If interest is in default state the years and amounts as follows:		
1873	$4,025 00	
1874	9,765 00	
1875	20,300 00	
1876	21,490 00	
1877 and 1878 (each year)	22,540 00	
1879	22,575 00	
1880—1891 (each year)	22,610 00	

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$586,342 02
Average cost per mile of road (not included in sidings, 14.68 miles)	39,941 56
Proportion of cost of construction for Michigan	All.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
December 4, 1874. St. Clair to Ridgeway, Michigan.

MAIN LINE.

	Miles.
Length completed in Michigan	14.68
Total length of road belonging to this company	14.68
Total length of road belonging to this company in Michigan	14.68
Aggregate length of sidings, spurs, and other tracks not above enumerated	.81
Same in Michigan	.81
Aggregate length of tracks belonging to this company, computed as single track	15.49
Same in Michigan	15.49

Gauge of track, 4 feet 8½ inches.

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STATE OF NEW YORK, } ss.
COUNTY OF NEW YORK. }

Charles F. Cox, Secretary and Treasurer, of the Michigan Midland & Canada Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] C. F. COX,
Secretary and Treasurer.

Subscribed and sworn to before me this 15th day of March, A. D. 1892.

[L. S.] EDGAR FREEMAN,
Notary Public.

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ANNUAL REPORT

OF THE

SAGINAW BAY & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich.
Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.
General Manager, H. B. LEDYARD, Detroit, Mich.

DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
F. J. HECKER, Detroit, Mich.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 27, 1884.
Date of annual meeting of stockholders—First Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit and Bay City, Mich.

REMARKS.

The stock is owned and the road operated by the Michigan Central Railroad Company.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$800,000 00
Par value of shares		$100 00	
Average amount received per share		100 00	
Number of shares issued	2,000		
Amount paid in on common		$200,000 00	
Total amount paid in as per books of the company			$200,000 00
Paid in per mile of road owned by company, miles 87.21			$2,293 82

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction as per books of company	$225,526 15
Average cost per mile of road (not included in sidings), miles 87.21	2,586 01
Proportion of cost for Michigan	225,526 15

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
May, 1879.

MAIN LINE.

	Miles.
Length completed in Michigan	28.72
Total length completed	28.72

Branches.

Sundry branches from main line into woods	58.49
Total length of branches owned by company	58.49
Total length of branches owned by company in Michigan	58.49
Total length of road belonging to this company	87.21
Total length of road belonging to this company in Michigan	87.21
Aggregate length of sidings, spurs and other tracks not above enumerated	5.27
Same in Michigan	5.27
Aggregate length of tracks belonging to this company computed as single track	92.48
Same in Michigan	92.48

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

H. B. Ledyard, general manager, and D. A. Waterman, secretary, of the Saginaw Bay & Northwestern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, H. B. LEDYARD, *General Manager.*
[L. S. OF R. R.] D. A. WATERMAN, *Secretary.*

Subscribed and sworn to before me this 11th day of March, A. D., 1892.
[L. S.]

JOHN F. PETERS,
Notary Public, Wayne Co., Mich.

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ANNUAL REPORT

OF THE

TOLEDO, CANADA SOUTHERN & DETROIT RAILWAY CO.,

For the year ending December 31, 1891.

[Filed March 18, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.
Secretary and Treasurer, CHARLES F. COX, New York.
Transfer Agent, F. MIDDLEBROOK, New York.

DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y.
WILLIAM K. VANDERBILT, New York, N. Y.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CHARLES F. COX, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
EDWARD A. WICKES, New York, N. Y.
CHAUNCEY M. DEPEW, New York, N. Y.
ALLYN COX, New York, N. Y.
Terms expire June, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—Consolidation (July 19, 1872), of the Detroit & State Line Railroad Company, of Michigan, and the Junction Railway Company of Ohio.
Number of stockholders at date of last election 15
Number of stockholders in Michigan at same date 1
Amount of full paid stock held in Michigan at same date—two shares.
Date of annual meeting of stockholders—First Thursday after first Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Michigan.

REMARKS.

The stock is controlled by the Canada Southern Railway Company and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$2,000,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	15,476⅝		
Shares not issued	4,523⅜		
Amount paid in on common			$1,547,662 50
Total amount paid in, as per books of the company			$1,547,662 50

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mtge. gold bonds coupon dated Aug. 1, 1872	7%	Jan. 1, 1906, interest Jan. and July	New York	$1,500,000 00
First mtge. scrip				11,737 50
Total funded debt				$1,511,737 50

UNFUNDED DEBT.

For miscellaneous (interest on bonds)	$1,942,780 00

RECAPITULATION.

Total funded debt	$1,511,737 50
Total unfunded debt	1,942,780 00
Total debt liabilities	$3,454,517 50
Amount of debt liabilities per mile of road (58.92 miles)	58,680 61
Total amount of stock and debt	$5,002,180 00
Stock and debt per mile of road (58.92 miles)	84,897 82

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?		$105,000 00
Was it paid for the last year?		No.
If interest is in default state the years and amounts as follows:		
1873	$52,780 00	
1874—1891 inclusive, per annum	105,000 00	

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$3,126,710 77
Average cost per mile of road (not included in sidings) 58.92 miles	53,067 05
Proportion of cost of construction for Michigan	2,645,419 70

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
September 1, 1873. Springwells, Mich., to Toledo, Ohio.

MAIN LINE.

	Miles.
Length completed in Michigan	47.27
Length completed in Ohio	11.65
Total length completed	58.92
Total length of road belonging to this company	58.92
Total length of road belonging to this company in Michigan	47.27
Aggregate length of sidings, spurs, and other tracks not above enumerated	53.50
Same in Michigan	32.16
Aggregate length of tracks belonging to this company, computed as single track	112.42
Same in Michigan	79.43

Gauge of track, 4 feet 8½ inches.

STATE OF NEW YORK, } ss.
COUNTY OF NEW YORK. }

Charles F. Cox, Secretary and Treasurer, of the Toledo, Canada Southern & Detroit Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the 31st day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.]

C. F. COX,
Secretary and Treasurer.

Subscribed and sworn to before me this 15th day of March, A. D. 1892.
[L. S.]

EDGAR FREEMAN,
Notary Public.

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ANNUAL REPORT

OF THE

SAGINAW, TUSCOLA & HURON RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 23, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. L. WEBBER, Saginaw, E. S.
Vice President, E. T. JUDD, Saginaw, E. S.
Secretary, S. G. HIGGINS, Saginaw, E. S.
Auditor, JAS. G. HARRIS, Saginaw, E. S.
Treasurer, WM. H. HART, Saginaw, E. S.
General Superintendent, M. V. MEREDITH, Saginaw, E. S.
General Passenger and Freight Agent, M. V. MEREDITH, Saginaw, E. S.

DIRECTORS.

WM. L. WEBBER, East Saginaw.
JAS. B. PETER, East Saginaw.
O. F. WISNER, East Saginaw.
JNO. S. ESTABROOK, East Saginaw.
E. T. JUDD, East Saginaw.
S. G. HIGGINS, East Saginaw.
W. H. HART, East Saginaw.
Terms expire May 16, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—February 24, 1881.

Number of stockholders at date of last election	124
Number of stockholders in Michigan at same date	120
Amount of full paid stock held in Michigan at same date, shares	608

Date of annual meeting of stockholders,—May 16, 1891.
Fiscal year of company ends December 31.
General offices of the company are located at Saginaw, East Side, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$106,781 72
Total expenses, including taxes	$78,945 88	
Net income		$27,836 84
Interest on funded debt	$11,400 00	
Interest on unfunded debt	22,240 45	
Balance for the year		$5,804 11
Balance (profit and loss) last year		58,386 56
Balance forward to next year		$64,190 67

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$600,000 00
Par value of shares		$100 00	
Number of shares issued	1,238	$123,800 00	
Amount paid in on shares not issued (number)	6	255 38	
Total amount paid in, as per books of the company			$123,555 38
Paid in per mile of road owned by company—66.57 miles			$1,856 02

ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction		$688,671 03
For equipment		25,005 32
For real estate		4,218 83
For miscellaneous		218,276 82
For current balances		10,525 37
Total unfunded debt		$946,697 36

RECAPITULATION.

Total unfunded debt	$946,697 36
Total debt liabilities	946,697 36
Amount of debt liabilities per mile of road (66.57 miles)	14,221 06
Total amount of stock and debt	1,070,252 74
Stock and debt per mile of road (66.57 miles)	16,077 10

GENERAL BALANCE SHEET.—Dr.

Construction account	$702,298 80	
Equipment account	202,029 53	
Other investments:		
Saginaw real estate	4,543 14	
Pigeon property	175 00	
		$909,046 47
Cash items:		
Cash	$3,710 32	
Bills receivable	917 00	
Due from agents	1,794 32	
		6,421 64
Other assets:		
Materials and supplies	$7,767 28	
Debit balances from companies and individuals	12,624 10	
Bay Port quarries	53,313 82	
Bay Port hotel	16,888 76	
Balance brought forward	64,190 67	
		154,784 63
Total		$1,070,252 74

GENERAL BALANCE SHEET.—Cr.

Capital stock paid in	$123,555 38	
		$123,555 38
Unfunded debt:		
Vouchers and accounts	$946,697 36	
Profit and loss or income accounts		946,697 36
Total		$1,070,252 74

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$904,328 33
Average cost per mile of road (not included in sidings, 66.57 miles)	13,584 62
Proportion of cost for Michigan	904,328 33

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CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$4,834 68
Second track, standard gauge	209,027 37
New buildings and bridges	6,452 88
New fences	325 34
Machinery and tools	837 44
New locomotives	25,800 00
New cars	84,793 00
Total	$331,070 66
Total charges to property account as above	$331,070 66
Property sold and credited	60,880 97
Net addition to property account	$270,189 69

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$37,522 10	
Through fares	6,594 70	
Total passenger fares	$44,116 80	
Express and baggage	610 69	
Mails	2,891 47	
Total passenger department earnings		$47,618 96
Proportion for Michigan	$47,618 96	
Per train mile	52	
Per mile of road	715 32	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$55,699 63	
Through traffic	2,918 00	
Total traffic	$58,617 63	
Total freight department earnings		$58,617 63
Proportion for Michigan	$58,617 63	
Per train mile	1 39	
Per mile of road	880 54	
Total transportation earnings		$106,236 59
Transportation earnings per mile of road	$1,595 86	
Transportation earnings per train mile	80	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph		545 13
Total		$106,781 72
Total earnings from operation of road		$106,781 72
Total earnings per mile of road	$1,604 05	
Total earnings per train mile	80	
Proportion of taxable earnings for Michigan		106,781 72
Total taxable earnings per mile of road in Michigan	1,604 05	
Total income from all sources		106,781 72
Proportion of income for Michigan		106,781 72

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$16,599 26
Renewals of rails	328 50
Renewals of ties	2,848 96
Repairs of bridges, including culverts and cattle guards	143 39
Repairs of fences, road crossings and signs	1,212 28
Repairs of buildings	1,473 98
Total	$22,106 37

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MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$5,008 25
Repairs of passenger cars	2,640 25
Repairs of freight cars	1,759 82
Total	$9,498 32

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$9,202 93
Water supply	512 28
Oil and waste	838 46
Locomotive service	8,558 94
Passenger train service	3,160 89
Passenger train supplies	271 04
Mileage of passenger cars	80 47
Freight train service	3,954 47
Freight train supplies	73 10
Mileage of freight cars	1,089 57
Telegraph expenses (maintenance and operating)	233 81
Damage and loss of freight and baggage	120 06
Damages to property and cattle	5 00
Agents and station service	6,966 66
Station supplies	316 16
Total	$35,333 84

GENERAL EXPENSES.

Salaries of the general officers of the company	$3,600 00
Salaries of clerks in general offices	2,295 16
Law expenses	283 00
Insurance	650 23
Stationery and printing	871 57
Outside agencies and advertising	518 73
Contingencies	1,666 47
Taxes	2,151 69
Total	$12,006 85

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	28.01	$22,106 87
Maintenance of motive power and cars	12.03	9,498 32
Conducting transportation	44.75	35,333 84
General expenses, including taxes	15.21	12,006 85
Total operating expenses and taxes	100.00	$78,945 88
Operating expenses and taxes per mile of road	$1,185 90	
Operating expenses and taxes per train mile run, for trains earning revenue (132,480 miles)	59	
Proportion of operating expenses and taxes for Michigan		$78,945 88
Total proportion of expenses for Michigan		$78,945 88
Percentage of expenses to earnings		73.93
Net earnings per mile of road		418 15
Net earnings per train mile		21

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Saginaw to Sebewaing, April 4, 1882.
From Sebewaing to Bay Port, June 15, 1884.
From Bay Port to Bad Axe, July 1, 1885.

MAIN LINE.

	Miles.
In Michigan, from Saginaw to Bad Axe	64.38
Total length completed	64.38

BRANCHES.

From Bay Port Junction to Bay Port	1.38
From Quarry Junction to Quarry	.81
Total length of branches owned by company	2.19
Total length of branches owned by company in Michigan	2.19
Total length of road belonging to this company	66.57
Total length of road belonging to this company in Michigan	66.57
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	14.39
Aggregate length of tracks in Michigan belonging to this company, computed as single track	80.96

Gauge of track—4 feet, 8½ inches.

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	11	906
Total	11	906

Draw Bridges in Michigan.

How many on your line?
One.
Where located, when built, and length of draw span?
Sebewaing, 1891, 35 feet.
Character of structure:
Turn-table pattern.
Material of which constructed:
Iron.
Height above water, and depth of water under bridge:
Seven feet; 7 feet.
How swung, by engine or hand power:
Hand power.
Approaches straight or curved:
Straight.
Do you require all trains to come to full stop before crossing a draw, and how are they signaled?
Full stop. Flag and lamp.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Michigan Central Railroad at Reese.
Pontiac, Oxford & Northern Railroad at Berne Junction.

Number of crossings of highways at grade in this State	82
Number of crossings of highways at grade in this State at which there are gates or flagmen	4
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Wooden blocks bolted on.

Stations.

Number of stations on whole line	16
Same in Michigan	16

Employés.

Number persons regularly employed on all roads operated by company, including officials	86
Same in Michigan	86

Classify your employés as per following list:

	Number.
Baggagemen	1
Brakemen	6
Conductors	4
Engineers	5
Firemen	5
Laborers	34
Shopmen	8
Others	23

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	138.14

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:
All fenced.

Road Bed and Track.

Number of track sections in Michigan	11
Average length of sections (miles)	6
Average number of men in each section gang	3
Number of new ties put in whole line during the year	93,154
Number of new ties put in track in Michigan	93,154
Average number of new ties per mile of road	1,899
New rails put in track:	
Steel (tons 4,500) miles	51.68
Total miles of track laid with new rails	51.68

Bridges and Culverts.

Amount of trestle work replaced with stone during the year (linear feet)	231

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Timber culverts replaced during the year:
With sewer pipe, number 10

New bridges built during the year—number:
One.

Location.	Kind.	Material.	Month built.	Feet in length.
Sebewaing	Swing	Iron	June	76

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	6	$30,400 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	4,900 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender, narrow gauge	3	5,000 00
Total	10	$30,300 00
Number of passenger cars—8 wheel, including official cars,—9 standard and 3 narrow gauge	12	$19,100 00
Number of express and baggage cars,—2 narrow and 2 standard	4	3,200 00
Number of box freight cars,—70 narrow and 25 standard	95	20,900 00
Number of stock cars,—narrow gauge	9	1,000 00
Number of platform cars,—73 narrow and 75 standard	148	34,875 00
Number of coal cars,—standard	50	20,500 00
Number of conductors' way cars,—2 standard and 1 narrow	3	1,500 00
Total	321	$130,775 00

Number of locomotives equipped with power brakes 10
Number of passenger train cars equipped with power brakes 12

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse; 10 engines, 4 baggage cars and 12 coaches.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Hinson & Thurmond.

How are your passenger cars heated?
Steam. Martin Anti-Fire Car Heating Co.

MILEAGE TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	90,386
Miles run by freight trains during the year	42,094
Total mileage of trains earning revenue	132,480

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	3,702		
Number of local passengers carried	78,196		
Total number of passengers carried	81,898		
Total passengers mileage, or passengers carried one mile		1,878,773	
Average distance traveled by each passenger		23	
Average amount received from each passenger			$0 54
Average rate of fare per mile for through passengers			02.658
Average rate of fare per mile for local passengers			02.318
Average rate of fare per mile for all passengers			02.363

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Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	2,260		
Number of tons of local freight carried	76,911		
Total tons of freight carried	79,171		
Total mileage of through freight		151,724	
Total mileage of local freight		2,648,533	
Total freight mileage, or tons carried one mile		2,800,257	
Average ton haul for through freight		67	
Average ton haul for local freight		34	
Average ton haul for all freight		35	
Average amount received for each ton haul			$0 74
Average rate per ton per mile, received for through freight			01.923
Average rate per ton per mile, received for local freight			02.103
Average rate per ton per mile, received for all freight			02.093

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	2,419
Flour	985
Provisions (beef, pork, lard, etc.)	783
Animals	2,195
Other agricultural products	837
Lumber and forest products	27,831
Coal	8,481
Plaster, lime and cement	2,284
Salt	351
Petroleum	294
Other iron and castings	126
Stone, brick and sand	25,782
Manufactures,—articles shipped from point of production	482
Merchandise and other articles not enumerated above	6,319
Total forwarded	79,171

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	2,419	03.05
Flour	985	01.25
Provisions (beef, pork, lard, etc.)	783	00.98
Animals	2,195	02.77
Other agricultural products	837	01.06
Lumber and forest products	27,831	35.15
Coal	8,481	10.72
Plaster, lime and cement	2,284	02.88
Salt	351	00.44
Petroleum	294	00.37
Iron and castings	126	00.16
Stone, brick and sand	25,782	32.56
Manufactures—articles shipped from point of production	482	00.62
Merchandise and other articles not enumerated above	6,319	07.99
Total tons carried	79,171	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. One and one-half first-class rates. Freight taken at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

66.57 miles. Owned by this company.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

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Name of company.	General office.	Amount paid.
Merchants' Despatch	New York	$3 54
West Michigan Equipment Co.	Grand Rapids	75
National Dispatch	Boston	3 73
Silas Kilburn & Co.	Grand Rapids	69
Total		$8 71

STATE OF MICHIGAN, } ss.
COUNTY OF SAGINAW. }

W. L. Webber, president, and Jas. G. Harris, auditor, of the Saginaw, Tuscola & Huron Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,

WM. L. WEBBER,
JAS. G. HARRIS.

[L. S. OF R. R.]

Subscribed and sworn to before me this 22d day of March, A. D., 1892.

[L. S.]

JOHN V. BILLING,
Notary Public.

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ANNUAL REPORT

OF THE

MILWAUKEE & NORTHERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. C. PAYNE, Milwaukee, Wis.
Vice President, E. P. RIPLEY, Chicago, Ill.
Secretary, P. M. MYERS, Milwaukee, Wis.
Auditor, W. N. D. WINNE, Chicago, Ill.
Treasurer, F. G. RANNEY, Chicago, Ill.
General Manager, A. J. EARLING, Chicago, Ill.
General Superintendent, W. G. COLLINS, Chicago, Ill.
Assistant General Superintendent, E. W. McKENNA, Milwaukee, Wis.
Superintendent, H. M. BELL, Green Bay, Wis.
Chief Engineer, D. J. WHITTEMORE, Chicago, Ill.
Superintendent of Telegraph, U. J. FRY, Milwaukee, Wis.
General Passenger Agent, G. H. HEAFFORD, Chicago, Ill.
General Freight Agent, J. J. COLEMAN, Milwaukee, Wis.
Attorney, JOHN W. CARY, Chicago, Ill.

DIRECTORS.

FRANK S. BOND, New York, N. Y.
FREDERICK LAYTON, Milwaukee, Wis.
ROSWELL MILLER, Chicago, Ill.
HENRY C. PAYNE, Milwaukee, Wis.
E. P. RIPLEY, Chicago, Ill.
ANGUS SMITH, Milwaukee, Wis.
SAMUEL SPENCER, New York, N. Y.

Terms expire when successors are elected.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed—June 5, 1880.

Number of stockholders at date of last election	24
Number of stockholders in Michigan at same date	0
Amount of full paid stock held in Michigan at same date	0

Date of annual meeting of stockholders—First Tuesday in October.
Fiscal year of company ends June 30.
General offices of the company are located at Chicago, Ill.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$1,697,014 18
Total expenses, including taxes	$1,043,255 07	
Net income		$653,759 11
Interest on funded debt	$369,480 00	
Interest on unfunded debt	256 30	
Rentals of buildings, tracks, etc.	27,875 44	
		397,611 74
Balance applicable to dividends		$256,147 37
Dividends declared (4%)		246,330 00
Balance for the year		$9,817 37
Balance (profit and loss) last year		162,183 03
Balance forward to next year		$172,000 40

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$8,000,000 00
Par value of shares	$100 00		
Number of shares issued	61,582½		
Amount paid in on common		$6,158,250 00	
Total amount paid in, as per books of the company			$6,158,250 00
Paid in per mile of road owned by company—miles, 362.25			$17,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds issued 1880	6 per cent.	1910	New York.	$2,155,000 00
First mortgage bonds issued 1884	6 per cent.	1913	New York.	4,003,000 00
Total funded debt				$6,158,000 00

UNFUNDED DEBT.

Miscellaneous	$49,275 87
Total unfunded debt	$49,275 87

RECAPITULATION.

Total funded debt	$6,158,000 00
Total unfunded debt	49,275 87
Total debt liabilities	$6,207,275 87
Amount of debt liabilities per mile of road (362.25 miles)	$17,135 33
Total amount of stock and debt	12,365,525 87
Stock and debt per mile of road (362.25 miles)	34,135 33

GENERAL BALANCE SHEET.—Dr.

Construction and equipment account	$12,542,277 09	
Other investments:		
Groveland mine extension	6,597 11	
		$12,548,874 20
Cash items:		
Bills receivable	$14,084 12	
Due from agents	23,582 99	
		37,667 11
Total		$12,586,541 31

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GENERAL BALANCE SHEET.—Cr.

Capital stock	$6,158,250 00	
Funded debt	6,158,000 00	
		$12,316,250 00
Unfunded debt:		
Interest unpaid	$38,170 00	
Dividends unpaid	16 00	
Vouchers and pay rolls	674 33	
Other liabilities	10,415 04	
O. and B. R. earnings	49,015 04	
Profit and loss or income accounts	172,000 40	
		270,291 31
Total		$12,586,541 31

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment		$12,542,277 09
Average cost per mile of road, not included in sidings (362.25 miles)	$34,623 26	
Proportion of cost for Michigan		$3,696,033 34

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE AND BRANCHES.

Extensions and new sidings	$51,896 43
New buildings	5,499 04
New fences	5,783 68
Machinery and tools	1,501 37
Equipment	5,892 48
Bridges	2,448 10
Rails, etc.	504 04
Ballasting	631 86
Green Bay dock	2,114 31
Survey	115 09
Right of way	1,736 35
Total	$79,122 75
Total charges to property account as above	$79,122 75
Property sold and credited	339,230 36
Net deductions from property account	$260,107 61

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Other sources.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$256,440 24	$108,428 92	$364,869 16	$22,348 60	$39,853 49	$2,566 12	$429,637 87	$78,752 58	.....	$1,296 23
Leased or proprietary roads:										
Ontonagon & Brule River	9,137 85	1,667 67	10,805 52	337 58	1,977 60	5 00	13,125 70	13,125 70	.....	285 34
Total passenger dep't earnings	$265,578 09	$110,096 59	$375,674 68	$22,686 18	$41,831 09	$2,571 12	$442,763 07	$91,878 28	$0 80	$1,173 03

FREIGHT EARNINGS.

	Local traffic.	Through traffic.	Total traffic.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$462,717 57	$804,659 24	$1,267,376 81	$1,267,376 81	$282,310 17	.....	$3,823 73
Leased or proprietary roads:							
Ontonagon & Rrule River	14,807 45	21,051 89	35,889 34	35,889 34	35,889 34	.....	780 20
Total freight department earnings	$477,525 02	$825,741 13	$1,303,266 15	$1,303,266 15	$268,199 51	$1 82	$3,452 82

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Total transportation earnings	$1,746,029 22
Transportation earnings per mile of road	4,625 85
Transportation earnings per train mile	1 38

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

Company.	Total Miscellaneous.	Proportion for Michigan
Ontonagon & Brule River	$49,015 04	$49,015 04

Total earnings from operation of road	$1,697,014 18
Total earnings per mile of road	5,120 37
Total earnings per train mile	1 34
Proportion of taxable earnings for Michigan	311,062 70
Total taxable earnings per mile of road in Michigan	5,120 37
Ontonagon & Brule River earnings per mile of road	1,065 54
Total income from all sources	1,746,029 22
Proportion of income for Michigan	311,062 70
Proportion of income for Ontonagon & Brule River	49,015 04

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$91,067 17
Renewals of rails	2,279 93
Renewals of ties	36,344 96
Repairs of bridges, including culverts and cattle guards	42,405 40
Repairs of fences, road crossings and signs	3,868 14
Repairs of buildings	10,805 59
Total	$187,271 19

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$62,980 88
Repairs of cars	85,825 07
Repairs of tools and machinery	5,801 15
Total	$154,607 05

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$139,590 55
Water supply	3,521 81
Oil and waste	4,722 08
Locomotive service	121,271 49
Passenger train service	29,504 62
Passenger train supplies	2,623 94
Freight train service	64,087 65
Freight train supplies	5,854 91
Mileage of freight cars	25,512 61
Telegraph expenses (maintenance and operating)	24,080 34
Damage and loss of freight and baggage	2,012 24
Damages to property and cattle	10,616 40
Personal injuries	19,994 80
Agents and station service	85,398 60
Station supplies	8,695 72
Total	$547,487 71

GENERAL EXPENSES.

Salaries of the general officers of the company	$22,374 21
Salaries of clerks in general offices	20,463 25
Law expenses	3,464 31
Insurance	3,345 97
Stationery and printing	7,456 95
Outside agencies and advertising	27,058 38
Contingencies	11,281 16
Taxes	58,444 89
Total	$153,889 12

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	17.95	$187,271 19
Maintenance of motive power and cars	14.82	154,607 05
Conducting transportation	52.48	547,487 71
General expenses, including taxes	14.75	153,889 12
Total operating expenses and taxes	100.00	$1,043,255 07
Operating expenses and taxes per mile of road		$2,763 96
Operating expenses and taxes per train mile run, for trains earning revenue (1,265,285 miles)		82.45

PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.

Main line		165,077 17
Leased or proprietary roads:		
Ontonagon & Brule River		124,531 90
Total proportion of expenses for Michigan		$289,609 07
Percentage of expenses to earnings	61.47	
Net earnings per mile of road		1,732 04
Net earnings per train mile	51.57	

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From North Milwaukee (Schwartsburg) to Champion, November 20, 1887.
From Hilbert to Menosha, 1874.
From Menosha to Appleton, 1879.
From Menosha to Neenah, 1880.
From Ellis Junction to Minnekaunee and Menominee, January, 1884.
From Oconto Junction to Oconto, November, 1889.

MAIN LINE.

	Miles.
In Michigan, from Menominee River to Champion	58.00
In Wisconsin, from North Milwaukee to Menominee River	196.20
Total length completed	254.20

BRANCHES.

Appleton, from Hilbert to Neenah and Appleton	22.00
Menominee, from Ellis Junction to Menominee	24.44
Menominee, from Marinette to Minnekaunnee	1.80
Menominee, from Frenchtown to Bay Shore	1.81
Oconto, from Oconto Junction to Oconto	12.80
Total length of branches owned by company	62.05
Total length of branches owned by company in Michigan	2.75
Total length of road belonging to this company	316.25
Total length of road belonging to this company in Michigan	60.75
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	24.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	60.75

Gauge of track, 4 feet, 8½ inches.

Proprietary or Leased Roads Operated by this Company.

	Total miles.	In Michigan.
Ontonagon & Brule River	46.00	46.00
Chicago, Milwaukee & St. Paul R'y, from Chestnut street, North Milwaukee, to North Milwaukee	6.10	----
Chicago, Milwaukee & St. Paul R'y, from South Milwaukee to North Milwaukee	9.10	----
Total	61.20	46.00
Total miles operated by the company	377.45	106.75

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	6	786
Iron bridges (one-half in Michigan)	1	117
Wooden trestles	158	13,677
Total	165	14,580

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Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Chicago & Northwestern R'y at Iron Mountain.
Chicago & Northwestern R'y at Wabick.
Duluth, South Shore & Atlantic R'y at Republic (2 crossings).
Duluth, South Shore & Atlantic R'y 2¼ miles north of Republic.
Duluth, South Shore & Atlantic R'y at Champion.
Chicago & Northwestern Railway at Menominee (2 crossings).

What railroads cross your road either over or under your grade in this State, and where?
Under:
Chicago & Northwestern R'y at Iron Mountain.

At what crossings are interlocking and derailing switches in operation?
Chicago & Northwestern R'y at Wabick.
Duluth, South Shore & Atlantic R'y 2¼ miles north of Republic.

What pattern or patterns have you adopted?
Isham Randolph and Union Switch & Signal Co.

Number of crossings of highways at grade in this State	50
Have safety guards been erected at overhead obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated? Blocked with 3-inch plank.

Stations.

Number of stations on whole line	71
Same in Michigan	17

Employés.

Number persons regularly employed on all roads operated by company, including officials	976
Same in Michigan	175

Classify your employés as per following list:

	Number.
Baggagemen	11
Brakemen	75
Conductors	42
Engineers	58
Firemen	60
Laborers	229
Shopmen and car cleaners	255
Yardmen	41
Others	175

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	44
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
Ontonagon county	41
Houghton county	37
Marquette county	22
Dickinson county	58
Total miles required	158

Road Bed and Track.

Number of track sections in Michigan	15
Average length of sections (miles)	7
Average number of men in each section gang	4
Number of new ties put in whole line during the year	102,800
Number of new ties put in track in Michigan	19,800
Average number of new ties per mile of road	283

ROLLING STOCK.

	Number.
Number of locomotives of more than 30 tons weight, exclusive of tender	31
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3
Total	34

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		Number.
Number of passenger cars—12 wheel, including official cars		5
Number of passenger cars—8 wheel, including official cars		21
Number of express and baggage cars		11
Number of box freight cars		637
Number of stock cars		10
Number of platform cars		180
Number of ore cars		145
Number of conductors' way cars		22
Other cars as follows:		
Gondolas	25	
Derrick and steam shovel	2	
		27
Total		1,058

Number of locomotives equipped with power brakes	34
Number of passenger train cars equipped with power brakes	87
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each:
Westinghouse air, 23 locomotives, 87 cars.
New York air, 2 locomotives.
Eames' Vacuum, 9 locomotives.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Janney.

How are your passenger cars heated?
Steam from locomotive.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	527,738
Miles run by freight trains during the year	646,346
Miles run by mixed trains	91,203
Total mileage of trains earning revenue	1,265,285

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	30,801		
Number of local passengers carried	310,376		
Total number of passengers carried	341,177		
Total passenger mileage, or passengers carried one mile	14,641,236		
Average distance traveled by each passenger		42.9	
Average amount received from each passenger			$1 10
Average rate of fare per mile for through passengers			2.73
Average rate of fare per mile for local passengers			2.50
Average rate of fare per mile for all passengers			2.56

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	827,117		
Number of tons of local freight carried	362,745		
Total tons of freight carried	1,189,862		
Total mileage of through freight		103,553,566	
Total mileage of local freight		23,638,089	
Total freight mileage, or tons carried one mile		127,191,655	
Average ton haul for through freight		125 1-5	
Average ton haul for local freight		65 1-6	
Average ton haul for all freight		107	
Average amount received for each ton haul			$1 10.
Average rate per ton per mile received for through freight			.797
Average rate per ton per mile received for local freight			2.020
Average rate per ton per mile received for all freight			1.025

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Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	811
Flour	4,036
Provisions (beef, pork, lard, etc.)	459
Animals	967
Other agricultural products	502
Lumber and forest products	146,489
Coal	65
Plaster, lime and cement	124
Salt	8
Railroad iron, iron and steel rails, Pig and bloom iron, Other iron and castings	488
Ores	343,276
Stone, brick and sand	1,467
Manufactures—articles shipped from point of production	1,278
Merchandise and other articles not enumerated above	11,084
Total	511,099

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	62,939	5.289
Flour	28,793	2.420
Provisions (beef, pork, lard, etc.)	5,113	.430
Animals	9,088	.764
Other agricultural products	15,637	1.314
Lumber and forest products	372,742	31.326
Coal	62,763	5.275
Plaster, lime and cement	36,900	3.101
Salt	2,088	.171
Railroad iron, iron and steel rails, Pig and bloom iron, Other iron and castings	22,235	1.869
Ores	371,173	31.195
Stone, brick and sand	18,185	1.528
Manufactures—articles shipped from point of production	45,022	3.784
Merchandise and other articles not enumerated above	137,235	11.534
Total tons carried	1,189,862	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company do a regular express business, paying a rate per day up to a certain weight transported. On excess over this fixed weight, a rate per 100 pounds.
The railroad company keeps cars in repair and receives and delivers freight at the railroad depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
360.80 miles owned jointly by the railroad company and the Western Union Telegraph Company.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report:

Pullman Palace Sleeping Car Co., Chicago, Ill.
No compensation except to keep cars in repair.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Any fast freight line cars may run over this road. We pay ¾c. per mile car mileage. No local freight hauled in these cars.

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STATEMENT OF ACCIDENTS.

KILLED.

October 9, Jno. Costello, Floodwood. Stealing a ride; fell and was run over.

INJURED.

April 30. W. H. King, switchman, Iron Mountain. Coupling cars.
July 3, P. D. Barry, night yardmaster, Iron Mountain. Coupling cars.
July 4, F. Davis, lumberman, Farnham. Boarding train; fell and was run over.
September 7, C. Findley, assistant roadmaster, Iron Mountain. Slipped and fell off coal dock.
September 17, James A. Gleason, brakeman, Republic. Brake staff broke letting him fall.
September 21, E. F. Holland, watchman, Iron Mountain. Sand box cover fell on his hand.
September 30, W. A. Jamison, passenger, Ontonagon. Fell off platform.
October 3, Jas. Hock, brakeman, Iron Mountain. Coupling cars.
November 10, M. McBride, switchman, Iron Mountain. Pulling pin.
November 24, O. N. Durand, switchman, Champion. Coupling cars.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					5	
Derailments						
Falling from trains			1			
Frogs						
Getting on and off trains						1
Highway crossings						
Miscellaneous					3	
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks						
Total			1		8	2

SUMMARY OF ACCIDENTS IN MICHIGHN.

Number of persons killed during the year	1
Number of persons injured during the year	10
Number of casualties purely accidental	8
Number resulting from lack of caution, carelessness, or misconduct	3
Trespassers and tramps killed or injured	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		2	2
Conductors			
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen		4	4
Not classified above		2	2
Total		8	8

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STATE OF ILLINOIS, } ss.
COUNTY OF COOK, }

W. N. D. Winne, Auditor, of the Milwaukee & Northern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] W. N. D. WINNE,
Auditor.

Subscribed and sworn to before me this 25th day of March, A. D. 1892.

[L. S.] WM. F. SCHMIDT,
Notary Public.

STATE OF WISCONSIN, } ss.
COUNTY OF MILWAUKEE. }

P. M. Myers, Secretary, of the Milwaukee & Northern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, P. M. MYERS,
Secretary.

Subscribed and sworn to before me this 26th day of March, A. D., 1892.

[L. S.] SEYMOUR H. CROLINS,
Notary Public, Milwaukee Co., Wisconsin.

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ANNUAL REPORT

OF THE

CHICAGO & GRAND TRUNK RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, L. J. SEARGEANT, Montreal, Province of Quebec.
Secretary and Assistant to the President, CHAS. PERCY, Montreal, Province of Quebec.
Treasurer, JAMES H. MUIR, Detroit, Mich.
General Manager, W. J. SPICER, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Assistant Superintendent, A. R. McINTYRE, Battle Creek, Mich.
Mechanical Superintendent, HERBERT ROBERTS, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, GEO. B. REEVE, Chicago, Ill.
General Passenger and Ticket Agent, W. E. DAVIS, Chicago, Ill.
General Freight Agent, DAVID BROWN, Chicago, Ill.
Solicitor, E. W. MEDDAUGH, Detroit, Mich.
General Storekeeper, JNO. S. LORIMER, Detroit, Mich.

DIRECTORS.

L. J. SEARGEANT, Montreal, Province of Quebec.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
HENRY HOWARD, Port Huron, Mich.
W. C. BEARDSLEY, Auburn, N. Y.
F. A. HOWE, Chicago, Ill.
DE F. SKINNER, Valparaiso, Ind.
Terms expire April 13, 1892 (or when their successors are appointed).

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 7, 1880.

Number of stockholders at date of last election	279
Number of stockholders in Michigan at same date	18
Amount of full paid stock held in Michigan at same date	$147,800 00

Date of annual meeting of stockholders—Second Wednesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich., and Chicago, Ill.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$3,866,669 69
Total expenses, including taxes		2,959,612 97
Net income		$907,056 72
Interest on funded debt	$679,991 58	
Interest on unfunded debt	23,861 67	
Rentals of leased line	18,442 48	
Rentals of engines and cars	115,601 91	
		817,897 64
Balance for the year		$89,159 08

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Items not included in above, as follows:		
Advances to Toledo, Saginaw & Muskegon Ry. Co. for the year 1891, and to Cincinnati, Saginaw & Mackinaw R. R. Co. from Nov. 1, 1890, to Dec. 31, 1891, in terms of traffic agreements	$49,142 54	
Interest coupons paid—previously in arrear	40,016 54	
		$89,159 08

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$6,600,000 00
Par value of shares	$100 00		
Number of shares issued	66,000		
Amount paid in on common		$6,600,000 00	
Total amount paid in as per books of the company			$6,600,000 00
Paid in per mile of road (miles 326.50)			$20,214 40

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue of bonds.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, 1880	6% per annum	Jan. 1, 1900	London, Eng., and N. York	$6,000,000 00
Second mortgage bonds, 1882	5% per annum	Jan. 1, 1922	New York	6,000,000 00
Total funded debt				$12,000,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount outstanding.
For construction, For equipment, For real estate, For renewals, For miscellaneous, For current balances		$1,623,305 18
Total unfunded debt		$1,623,305 18

RECAPITULATION.

Total funded debt	$12,000,000 00
Total unfunded debt	1,623,305 18
Total debt liabilities	$13,623,305 18
Amount of debt liabilities per mile of road (326.50 miles)	$41,725 28
Total amount of stock and debt	20,223,305 18
Stock and debt per mile of road (326.50 miles)	61,939 68

GENERAL BALANCE SHEET.—Dr.

Construction account, Equipment account		$19,076,298 77
Cash items:		
Cash	$198,312 58	
Due from agents	124,216 25	
		322,528 83
Other assets:		
Materials and supplies	$353,928 51	
Debit balances from companies and individuals	470,549 07	
		824,477 58
Total		$20,223,305 18

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GENERAL BALANCE SHEET.—Cr.

Capital stock	$6,600,000 00	
Funded debt	12,000,000 00	
		$18,600,000 00
Unfunded debt:		
Interest unpaid (Due Jan. 1, 1892)	$222,101 39	
Notes payable	50,000 00	
Vouchers and accounts	1,163,756 93	
Other liabilities:		
Salaries and wages (paid January, 1892)	187,446 86	
		1,623,305 18
Total		$20,223,305 18

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—January 7, 1880.	
Original cost to present company of road and equipment	$13,889,800 78
Amount expended since purchase, account of construction	4,690,382 99
Amount expended since purchase, account of equipment	1,496,115 00
Total cost to date of report	19,076,296 77
Average cost per mile of road (not including sidings, 326.50 miles)	58,426 64
Proportion of cost for Michigan	13,087,570 00

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$161,490 99
Second track	18,686 90
New buildings	11,956 78
New fences	849 43
Machinery and tools	10,662 00
New cars	11,000 00
Total charges	$214,586 10
Total charges to property account as above	$214,586 10
Property sold and credited	251 00
Net addition to property account	$214,335 10

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$507,020 51	
Through fares	597,907 39	
Total passenger fares	$1,104,927 90	
Express and baggage	43,014 92	
Mails	40,614 11	
Total		$1,188,556 93
Proportion for Michigan	$794,096 56	
Per train mile	84	
Per mile of road	3,545 07	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$831,698 29	
Through traffic	1,843,970 45	
Total traffic		$2,675,668 74
Proportion for Michigan	$1,787,663 07	
Per train mile	1 20	
Per mile of road	7,980 64	
Total transportation earnings		$3,864,225 67
Transportation earnings per mile of road	$11.525 71	
Transportation earnings per train mile	1 06	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From other sources		2,444 02
Total		$3,866,669 69

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Total earnings from operation of road		$3,866,669 69
Total earnings per mile of road	$11,533 80	
Total earnings per train mile	1 06	
Proportion of taxable earnings for Michigan		2,583,392 00
Total taxable earnings per mile of road in Michigan		11,533 00
Total income from all sources		3,866,669 69
Proportion of income for Michigan		2,583,392 00

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$187,888 45
Renewals of rails Renewals of ties	96,374 74
Repairs of bridges, including culverts and cattle guards	25,376 91
Repairs of fences, road crossings, and signs	10,140 84
Repairs of buildings	39,655 50
Total	$359,435 94

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$177,114 87
Repairs of passenger cars	99,082 56
Repairs of freight cars	149,224 32
Total	$425,421 75

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$366,750 90
Water supply	15,095 55
Oil and waste	30,983 23
Locomotive service	330,197 36
Passenger train service	53,530 12
Passenger train supplies	9,179 60
Mileage of passenger cars	52,061 08
Freight train service	352,557 37
Freight train supplies	18,359 31
Mileage of freight cars	234,500 90
Telegraph expenses (maintenance and operating)	62,000 50
Damage and loss of freight and baggage	4,017 68
Damages to property and cattle	874 76
Personal injuries	23,000 00
Agents and station service	124,999 50
Station supplies	14,147 00
Total	$1,722,254 91

GENERAL EXPENSES.

Salaries of the general officers of the company	$42,988 00
Salaries of clerks in general offices	60,835 14
Law expenses	13,685 95
Insurance	9,011 04
Stationery and printing	30,108 11
Outside agencies and advertising	145,260 18
Contingencies	15,613 89
Taxes	134,998 06
Total	$452,500 87

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	12.15	$359,435 94
Maintenance of motive power and cars	14.37	425,421 75
Conducting transportation	58.19	1,722,254 91
General expenses, including taxes	15.29	452,500 87
Total operating expenses and taxes	100.00	$2,959,612 97

Operating expenses and taxes per mile of road	$8,827 55
Operating expenses and taxes per train mile run, for trains earning revenue (miles 3,634,991)	81
Proportion of operating expenses and taxes for Michigan	1,955,098 68
Percentage of expenses to earnings	76.54
Net earnings per mile of road	2,701 44
Net earnings per train mile	25

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Port Huron, Michigan, to Chicago, Illinois, February 1, 1880.

MAIN LINE.

	Miles.
In Michigan, from Port Huron, Mich., to Michigan and Indiana State line	224.00
In Indiana, from Michigan and Indiana State line to Indiana and Illinois State line	80.62
In Illinois, from Indiana and Illinois State line to Elsdon, Chicago	21.88
Total length completed	326.50
Length of double track on main line	14.50
Total length of road belonging to this company	326.50
Total length of road belonging to this company in Michigan	224.00
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	61.27
Aggregate length of tracks in Michigan belonging to this company, computed as single track	285.27

Gauge of track, 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:	Total Miles.	In Michigan.
Grand Trunk Junction Railway Co.—Elsdon, Chicago, to the Chicago & Western Indiana R. R. Junction	3.90	
Chicago & Western Indiana R. R. Co.—from C. & W. I. R. R. Junction to Polk Street Depot, Chicago	4.87	
Total	8.77	
Total miles operated by the company	335.27	224.00

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Iron	20	1,717
Wooden trestles	54	2,049
Total	74	3,766

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Flint & Pere Marquette R. R. at Chicago & Grand Trunk Junction (near Port Huron).
Grand Trunk R'y at Chicago & Grand Trunk Junction (near Port Huron).
Bay City division of Michigan Central R. R. at Lapeer.
Flint & Pere Marquette R. R. at Flint.
Detroit, Grand Haven & Milwaukee R'y at Durand.
Cincinnati, Saginaw & Mackinaw R. R. at Durand.
Toledo, Ann Arbor & North Michigan R'y at Durand.
Detroit, Lansing & Northern R. R. at Trowbridge.
Michigan Central R. R. at Lansing, Charlotte, Battle Creek and Cassopolis.
Lake Shore & Michigan Southern R'y at Lansing and Schoolcraft.
Cincinnati, Jackson & Mackinaw R. R. at Battle Creek.
Grand Rapids & Indiana R. R. at Vicksburg.

What railroads cross your road either over or under your grade in this State and where?
Over:
None.
Under:
Pontiac, Oxford & Northern R. R. near Imlay City.

At what crossings are interlocking and derailing switches in operation?
Trowbridge, Lansing, Nichols, Schoolcraft and Cassopolis.

What pattern or patterns have you adopted?
Union Switch & Signal Company's.

Number of crossings of highways at grade in this State	262
Number of crossings of highways at grade in this State at which there are gates or flagmen	10
Number of crossings at which there are electric or automatic signals	1

What pattern or patterns in use:
Union Switch & Signal Company's.

Number of crossings of highways over or under railroad (over 2, under 2)	4
Number of highway bridges 18 feet above track	2
Number of highway bridges less than 18 feet above track	None.
Have safety guards been erected at over-head obstructions	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884	Yes.

How are they treated?
With Hart's patent blocking and plank.

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Stations.

Number of stations on whole line	92
Same in Michigan	46

Employés.

Number persons regularly employed on all roads operated by company, including officials	3,010
Same in Michigan	2,011

Classify your employés as per following list:

	Number
Baggagemen	35
Brakemen	248
Conductors	104
Engineers	153
Firemen	149
Laborers	867
Shopmen	589
Yardmen	109
Others	756

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you	456
Number of miles required to complete fencing	None.

Road Bed and Track.

Number of track sections in Michigan	45
Average lengths of sections (miles)	5
Average number of men in each section gang	5
Number of new ties put in whole line during the year	184,403
Number of new ties put in track in Michigan	123,203
Average number of new ties per mile of road	550
New rails put in track, steel (tons 2,425) miles	23
Total miles of track laid with new rails	23

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	507
Timber culverts replaced during the year:	
With iron pipe, number	10

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		108	$864,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		23	115,000 00
Total		131	$979,000 00
Number of passenger cars—12 wheel, including official cars		4	$24,800 00
Number of passenger cars— 8 wheel, including official cars		27	91,500 00
Number of express and baggage cars		17	31,400 00
Number of box freight cars		178	64,300 00
Number of stock cars		15	6,000 00
Number of platform cars		145	36,250 00
Number of conductors' way cars		63	37,500 00
Other cars as follows:			
Snow scraper	1		
Snow plows	2		
Derrick cars	2		
Auxiliaries	5		
		10	15,500 00
Total		454	$307,550 00

Number of locomotives equipped with power brakes	131
Number of passenger-train cars equipped with power brakes	48
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse and Eames; 131 locomotives Westinghouse and Eames; 31 coaches and 17 mail and baggage, Westinghouse.

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Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
McCree and Skinner, but withdrawing them.

How are your passenger cars heated?
Baker heater—hot water or steam.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	1,386,157
Miles run by freight trains during the year	1,988,542
Miles run by mixed trains	260,292
Total mileage of trains earning revenue	3,634,991

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	123,588		
Number of local passengers carried	1,019,824		
Total number of passengers carried	1,143,412		
Total passenger mileage, or passengers carried one mile	68,500,592		
Average distance traveled by each passenger		59.9	
Average amount received from each passenger			$0 96.63
Average rate of fare per mile for through passengers			01.44
Average rate of fare per mile for local passengers			01.87
Average rate of fare per mile for all passengers			01.61

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	1,061,517		
Number of tons of local freight carried	767,216		
Total tons of freight carried	1,828,733		
Total mileage of through freight		348,793,803	
Total mileage of local freight		93,145,914	
Total freight mileage or tons carried one mile		441,939,717	
Average ton haul for through freight		328.6	
Average ton haul for local freight		121.4	
Average ton haul for all freight		241.7	
Average amount received for each ton haul			$1 46.31
Average rate per ton per mile received for through freight			00.33
Average rate per ton per mile received for local freight			00.89
Average rate per ton per mile received for all freight			00.61

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	36,549
Flour	10,830
Provisions (beef, pork, lard, etc.)	2,159
Animals	11,678
Other agricultural products	24,382
Lumber and forest products	74,016
Coal	6,496
Plaster, lime and cement	4,948
Salt	14,370
Petroleum	7,626
Railroad iron, iron and steel rails	880
Pig and bloom iron	5,518
Other iron and castings	2,583
Ores	993
Stone, brick and sand	905
Manufactures—articles shipped from point of production	22,085
Merchandise and other articles not enumerated above	28,965
Total forwarded	254,933

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	305,467	16.70
Flour	32,831	1.79
Provisions (beef, pork, lard, etc.)	253,936	13.89
Animals	220,431	12.06
Other agricultural products	129,244	7.07
Lumber and forest products	140,167	7.66
Coal	68,802	3.76
Plaster, lime and cement	85,015	4.65
Salt	33,178	1.82
Petroleum	25,768	1.41
Railroad iron, iron and steel rails	3,965	.22
Pig and bloom iron	8,219	.45
Other iron and castings	17,554	.96
Ores	16,677	.91
Stone, brick and sand	41,010	2.24
Manufactures—articles shipped from point of production	145,793	7.97
Merchandise and other articles not enumerated above	300,686	16.44
Total tons carried	1,828,733	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

The National Express Company (transferred from the American Express Company May 1, 1891) $50 per day for local business averaging 7,000 pounds per day, and pay at same rate for excess, if any; also $50.34 per day on through business; freight taken at depot.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?
Cannot say; Western Union Telegraph Company.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room, and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company, Chicago, Illinois	$8,044 89
Wagner Palace Car Company, New York	9,859 30
Total	$17,903 69

Terms—8 cents per car per mile paid Wagner Company and for some Pullman cars; other Pullman cars only kept in repair; both companies get fares for berths and seats.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?
Cannot state the amounts paid "while in use for traffic between local points in this State."

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 6, Newman Steel, citizen, Imlay City. Highway crossing; accidental.
January 6, Howard Steel, citizen, Imlay City. Highway crossing; accidental.
January 20, Wm. Smith, trackman, Marcellus. Struck by train; his carelessness.
February 15, P. Shehan, foreman, Battle Creek. Walking on track; his carelessness.
March 9, W. McLaughlin and son, citizens, Shaftsburg. Highway crossing; accidental.
May 27, W. M. Blackman, trespasser, west of Charlotte. Lying on track, intoxicated; no inquest.
July 8, G. Presley, trespasser, Duffield. Walking on track, intoxicated; no inquest.
July 19, Mrs. C. Sheldon, citizen, Duffield. Highway crossing; company exonerated.
July 28, W. O'Hearn, trespasser, Schoolcraft. Fell from train; accidental.
September 2, O. Sanborn, tramp, Attica. Run over; no blame attached to company.
November 14, Enos Pressly, trespasser, Goodells. On track; his carlessness.

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INJURED.

January 1, F. L. Smith, brakeman, Lapeer. Getting off train; accidental.
January 2, M. Tyler, brakeman, Port Huron. Coupling; accidental.
January 6, J. P. Coots, passenger, Imlay City. Getting off train; his carelessness.
January 14, G. A. Huntington, conductor, Renton. Stepped through bridge; his carelessness.
January 16, G. W. Johnson, yardmaster, Durand. Coupling; accidental.
January 20, C. A. McCain, brakeman, Potterville. Fell from car; accidental.
January 23, E. F. Holmes, switchman, Durand. Getting off engine; accidental.
January 24, E. K. Hotchkiss, switchman, Durand. Getting off car; accidental.
January 26, R. C. Adair, yardmaster, Durand. Frog; accidental.
February 6, J. W. Monahan, brakeman, Battle Creek. Fell from car; accidental.
February 12, Mrs. S. J. Acker, citizen, Charlotte. Getting off train; her carelessness.
February 21, N. H. Jones, switchman, Nichols. Coupling; accidental.
February 27, A. W. Shattuck, brakeman, Lansing. Coupling; accidental.
March 2, —— Kelly, engineer, Goodells. Collision; carelessness.
March 2, J. T. Brink, passenger, Goodells. Collision; carelessness.
March 8, G. Losie, brakeman, Flint, Fell from car; accidental.
March 9, Mrs. McLaughlin, citizen, Shaftsburg. Highway crossing; accidental.
March 12, H. C. Howard, brakeman, Port Huron. Coupling; accidental.
March 14, C. Dunne, brakeman, Vicksburg. Coupling; accidental.
March 25, H. Raymond, trespasser, Flint. On track; his carelessness.
April 1, W. Sullivan, switchman, Flint. Coupling; accidental.
April 2, Mr. Stowell, trespasser, Charlotte. On track; his carelessness.
April 6, J. W. McCon, brakeman, Nichols. Rough switching; his carelessness.
April 11, J. J. Schenble, trespasser, Flint. On track; his carelessness.
April 11, D. W. McCarthy, brakeman, near Battle Creek. Fell from train; his carelessness.
May 4, C. McClelland, trespasser, Flint. On track; his carelessness.
May 18, C. Dermot, citizen, Capac. Highway crossing; his carelessness.
May 22, J. McGuigan, brakeman, Grand Trunk Junction. Coupling; accidental.
June 15, G. Church, passenger, Durand. Getting on train; his carelessness.
July 3, A. B. Groesback, switchman, Durand. Getting off car; his carelessness.
July 9, G. M. Colby, citizen, Shaftsburg. Getting off train; his own carelessness.
July 13, J. H. Pangborn, switchman, Nichols. Arm injured turning switch; accidental.
July 19. J. H. Chappell, brakeman, Lansing. Getting off train; accidental.
July 26, E. R. Osgood, passenger, Bellevue. Stone thrown through car window.
July 28, J. R. Taylor, switchman, Durand. Fell from car; his carelessness.
July 28, W. D. Crane, brakeman, Charlotte. Coupling; accidental.
August 1, J. Redmond, trespasser, Lansing. Getting off train, intoxicated; carelessness.
August 28, E. DeGraff, brakeman, Cassopolis. Coupling; accidental.
August 30, P. McKenney, trespasser, Wakelee. On track; his carelessness.
September 11, W. T. Conway, brakeman, Renton. Getting on train; his carelessness.
September 15. M. Fox, trespasser, Potterville. On track; his carelessness.
September 22, W. J. Wemple, baggageman, Lansing. Getting on engine; his carelessness.
September 30, B. W. Belyea, brakeman, Fort Gratiot. Getting off train; accidental.
October 9, N. T. Frink, brakeman, Fort Gratiot. Struck by switch.
October 13, R. McQuade, passenger, Lapeer. Getting off train; his carelessness.
October 15, A. Burlingame, brakeman, Durand. Coupling; accidental.
October 16, J. C. Pettie, brakeman, Grand Trunk Junction. Fell between cars; his careleness.
October 19, B. L. Barrett, switchman, Nichols. Coupling; accidental.
October 23, J. VanValkenburg, citizen, near Ransom. Highway crossing; his carelessness.
October 28, C. Ameel, laborer, Port Huron. Fell from car; accidental.
October 28, D. W. McCarthy, brakeman, Marcellus. Coupling; accidental.
November 4, E. N. Wagner, brakeman, Vicksburg. Coupling; his carelessness.
November 6, G. Southworth, trespasser, Grand Trunk Junction. On train; his carelessness.
November 15, John O'Connor, trespasser, Battle Creek. On track; his carelessness.
November 25, A. Jackson, citizen, Bancroft. Highway crossing; his carelessness.
December 5, A. McPhaden, trespasser, Goodells. On train; his carelessness.
December 22, S. Bradley, conductor, Lapeer. Getting on train; his carelessness.
December 26, C. Martin, brakeman, Nichols. Coupling; his carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions				1	1	
Coupling cars					15	
Derailments						
Falling from trains					7	
Frogs					1	
Getting on and off trains				3	9	2
Highway crossings			5			4
Miscellaneous		2		1	4	
Overhead obstructions						
Trespassers on trains			1			3
Trespassers on tracks			4			7
Total		2	10	5	37	16

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SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	12
Number of persons injured during the year	58
Number of casualties purely accidental	30
Number resulting from lack of caution, carelessness or misconduct	25
Persons killed or injured while intoxicated	3
Trespassers and tramps killed or injured	12

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen		1	1
Brakemen		22	22
Conductors		2	2
Engineers		1	1
Firemen			
Laborers		1	1
Shopmen			
Yardmen		10	10
Not classified above	2		2
Total	2	37	39

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

William J. Spicer, general manager, and James H. Muir, treasurer, of the Chicago & Grand Trunk Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. J. SPICER.
JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D., 1892.

[L. S.] L. F. LANG,
Notary Public, Wayne Co., Michigan.

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ANNUAL REPORT

OF THE

CHICAGO, DETROIT & CANADA GRAND TRUNK JUNCTION RAILWAY COMPANY.

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, L. J. SEARGEANT, Montreal, Canada.
Vice President, JOHN BELL, Belleville, Canada.
Secretary, ROBT. WRIGHT, Montreal, Canada.
Accountant, JAS. H. MUIR, Detroit, Mich.
General Manager, W. J. SPICER, Detroit, Mich.
Mechanical Superintendent, H. ROBERTS, Detroit.
Chief Engineer, GEORGE MASSON, Detroit.
Traffic Manager, GEO. B. REEVE, Chicago, Ill.
General Passenger and Ticket Agent, W. E. DAVIS, Chicago, Ill.
General Freight Agent, DAVID BROWN, Chicago, Ill.
Attorney, E. W. MEDDAUGH, Detroit.

DIRECTORS.

L. J. SEARGEANT, Montreal, Canada.
JOHN BELL, Belleville, Canada,
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
ROBT. WRIGHT, Montreal, Canada.
Terms expire September, 1892.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—March 18, 1858.

Number of stockholders at date of last election	23
Number of stockholders in Michigan at same date	2
Amount of full paid stock held in Michigan at same date	$200 00

Date of annual meeting of stockholders—Last Wednesday of September.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Michigan.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$264,179 14
Total expenses, including taxes	$256,484 19	
Net income		7,694 95
Interest on funded debt, 6%	$65,700 00	
Interest on stock, 4%	43,800 00	
Balance for the year, deficit	101,805 05	
Contribution from G. T. R. towards interest liabilities		$101,805 05

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,095,000 00
Par value of shares		$100 00	
Number of shares issued	10,950		
Amount paid in on common		$978,984 67	
Total amount paid in as per books of the company			$978,984 67
Paid in per mile of road owned by company (miles, 59.37)			$18,443 65

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, July, 1864	6 per cent	July, 1884	London, Eng.	$1,095,000 00
Bonds exchangeable for stock within 10 years from June 26, 1883, at 5%. (No interest paid)				691,141 46
Total funded debt				$1,786,141 46

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$1,786,141 46
Total debt liabilities	1,786,141 46
Amount of debt liabilities per mile of road (59.37 miles)	30,084 92
Total amount of stock and debt	2,881,141 46
Stock and debt per mile of road (59.37 miles)	48,528 57

GENERAL BALANCE SHEET.—Dr.

Construction account	$2,765,126 13
Total	$2,765,126 13

GENERAL BALANCE SHEET.—Cr.

Capital stock	$1,095,000 00	
Realized		$978,984 67
Funded debt		1,786,141 46
Total		$2,765,126 13

Operated by the Grand Trunk Railway Company, hence there are no current balances.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$2,765,126 13
Average cost per mile of road (not included in sidings, 59.37 miles)	46,574 46
Proportion of cost for Michigan	46,574 46

Equipment furnished by the lessees.

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$98,494 24	
Through fares	49,810 82	
Total passenger fares	$148,305 06	
Express and baggage	10,735 66	
Mails	9,374 68	

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Total passenger department earnings		$168,415 40
Proportion for Michigan	$168,415 40	
Per train mile	60	
Per mile of road	2,836 71	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$57,028 25	
Through traffic	37,429 66	
Total freight department earnings		$94,457 91
Proportion for Michigan	$94,457 91	
Per train mile	34	
Per mile of road	1,591 00	
Total transportation earnings		$263,873 31
Transportation earnings per mile of road		4,427 71
Transportation earnings per train mile		94
Miscellaneous receipts from operating account, other than for transportation	$1,305 83	
Total earnings from operation of road		$264,179 14
Total earnings per mile of road		4,449 71
Total earnings per train mile		94.5
Proportion of taxable earnings for Michigan		264,179 14
Total taxable earnings per mile of road in Michigan		4 449 71
Total income from all sources		264,179 14
Proportion of income for Michigan		264,179 14

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$21,624 68
Renewals of rails	3,255 66
Renewals of ties	6,150 21
Repairs of bridges, including culverts and cattle guards	6,715 66
Repairs of fences, road crossings, and signs	4,880 31
Repairs of buildings	6,933 52
Total	$49,560 04

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$27,150 99
Repairs of passenger cars	22,005 68
Repairs of freight cars	19,401 32
Total	$68,557 99

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$33,895 46
Water supply	1,206 60
Oil and waste	1,349 73
Locomotive service	31,631 82
Passenger train service	4,596 62
Passenger train supplies	897 95
Freight train service	9,198 26
Freight train supplies	1,795 94
Mileage of freight cars	3,600 00
Telegraph expenses (maintenance and operating)	4,776 83
Damage and loss of freight and baggage	848 58
Damages to property and cattle	71 04
Personal injuries	878 76
Agents and station service	33,598 62
Station supplies	7,620 84
Total	$123,862 85

GENERAL EXPENSES.

Salaries of the general officers of the company	$1,000 00
Salaries of clerks in general offices	2,000 00
Law expenses	1,500 00
Insurance	2,561 54
Stationery and printing	300 00
Outside agencies and advertising	2,000 00
Taxes	5,142 27
Total	$14,503 81

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	19.32	$49,560 04
Maintenance of motive power and cars	26.78	68,557 99
Conducting transportation	48.29	123,862 35
General expenses, including taxes	5.66	14,503 81
Total operating expenses and taxes	100.00	$256,484 19

Operating expenses and taxes per mile of road	$4,320 10
Operating expenses and taxes per train mile run, for trains earning revenue (279,681 miles)	92
Total proportion of expenses for Michigan	256,484 19
Percentage of expenses to earnings	97 08
Net earnings per mile of road	129 61
Net earnings per train mile	02.5

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
Detroit Junction to Fort Gratiot, November, 1859.

MAIN LINE.

	Miles.
In Michigan, from Detroit Junction to Fort Gratiot	59.37
Total length of road belonging to this company	59.37
Total length of road belonging to this company in Michigan	59.37
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	25.79
Aggregate length of tracks belonging to this company, computed as single track	85.16

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Iron bridges	6	792
Total	6	792

Draw Bridges in Michigan.

How many on your line? 1

Where located, when built, and length of draw span?
Near Port Huron; built in 1859; length of swing 123 feet.

Character of structure:
Swing draw.

Material of which constructed:
Iron and stone.

Height above water, and depth of water under bridge:
Height 16 feet; depth 12 feet.

How swung, by engine or hand power?
Hand power.

Approaches straight or curved:
Straight.

Do you require all trains to come to a full stop before crossing a draw, and how are they signaled?
Yes; by semaphores.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Detroit & Bay City R. R. at Detroit.
Detroit, Grand Haven & Milwaukee R'y at Detroit.
Belt Line R. R. at Detroit.
Flint & Pere Marquette R. R. at Port Huron.
Chicago & Grand Trunk R'y near Port Huron.
Flint & Pere Marquette R. R. at Port Huron.

At what crossings are interlocking and derailing switches in operation?
Woodward avenue and Belt Line R'y at Detroit.

What pattern or patterns have you adopted?
Union Switch & Signal Co.

Number of crossings of highways at grade in this State 9

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Number of crossings of highways at grade in this State at which there are gates or flagmen	19

Are your frogs and guard rails blocked as required by act 174, Session Laws 1884?
Yes.

How are they treated?
Filled with wood planking.

Stations.

Number of stations on whole line	12
Same in Michigan	12

Employés.

Number persons regularly employed on all roads operated by company, including officials	325
Same in Michigan	325

Classify your employés as per following list:

	Number.
Baggagemen	5
Brakemen	38
Conductors	18
Engineers	21
Firemen	22
Laborers	84
Shopmen	2
Yardmen	30
Others	110

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	122.74

Road Bed and Track

Number of track sections in Michigan	12
Average lengths of sections (miles)	5
Average number of men in each section gang	4
Number of new ties put in whole line during the year	20,411
Number of new ties put in track in Michigan	20,411
Average number of new ties per mile of road	344

New rails put in track: Steel (tons, 47) miles, .45.

ROLLING STOCK.

The company does not own any rolling stock. The stock used in working the line belongs to the Grand Trunk Railway Company of Canada.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
McCrea's patent coupler.

How are your passenger cars heated?
Baker heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	157,619
Miles run by freight trains during the year	78,733
Miles run by mixed trains	43,329
Total mileage of trains earning revenue	279,681

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	34,243		
Number of local passengers carried	235,350		
Total number of passengers carried	269,593		
Total passenger mileage, or passengers carried one mile		5,825,876	
Average distance traveled by each passenger		22	
Average amount received from each passenger			$0 55
Average rate of fare per mile for through passengers			02.5
Average rate of fare per mile for local passengers			02.6
Average rate of fare per mile for all passengers			02.5

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Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	58,417		
Number of tons of local freight carried	213,450		
Total tons of freight carried	271,867		
Total mileage of through freight		3,446,603	
Total mileage of local freight		5,164,887	
Total freight mileage, or tons carried one mile		8,611,490	
Average ton haul for through freight		59	
Average ton haul for local freight		24	
Average ton haul for all freight		32	
Average amount received for each ton haul			$0 34.7
Average rate per ton per mile, received for through freight			01.1
Average rate per ton per mile, received for local freight			01.1
Average rate per ton per mile, received for all freight			01.1

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Cotton	57
Grain	35,608
Flour	11,493
Provisions (beef, pork, lard, etc.)	160
Animals	7,878
Other agricultural products	17,804
Lumber and forest products	29,575
Coal	18,867
Plaster, lime and cement	823
Salt	173
Petroleum	2,255
Railroad iron, iron and steel rails	215
Pig and bloom iron	435
Other iron and castings	234
Stone brick and sand	2,022
Manufactures,—articles shipped from point of production	14,761
Merchandise and other articles not enumerated above	31,797
Total forwarded	173,642

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Cotton	57	.02
Grain	37,439	13.77
Flour	11,721	4.31
Provisions (beef, pork, lard, etc)	735	.27
Animals	8,276	3.04
Other agricultural products	23,585	8.68
Lumber and forest products	37,546	13.81
Coal	24,015	8.83
Plaster, lime and cement	1,003	.37
Salt	298	.11
Petroleum	2,423	.89
Railroad iron, iron and steel rails	276	.10
Pig and bloom iron	731	.27
Other iron and castings	465	.17
Ores	374	.14
Stone, brick and sand	5,499	2.02
Manufactures,—articles shipped from point of production	43,427	15.98
Merchandise and other articles not enumerated above	74,002	27.22
Total tons carried	271,867	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The Canadian Express Company. Fifty per cent of their gross receipts. Freights received at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

59.37 miles. Western Union Telegraph Company.

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Transportation Companies.

SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year; on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company's cars. No rental is paid. The cars are maintained by the Railway Company. The Pullman Company maintains the fittings and collects special fares.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Atlanta Stone, Coal & Lumber Line	Atlanta, Ga.	$1 34
Armour & Co. Refrigerator Line	Chicago, Ill.	5 96
Arms Palace Horse Car Co.	Chicago, Ill.	4 73
Anglo-American Provision Co.	Chicago, Ill.	2 66
American Refrigerator Transit Co.	St. Louis, Mo.	2 06
American Cotton Oil Co.	Chicago, Ill.	1 34
Chicago Refrigerator Car Co.	Lafayette, Ind.	9 48
Consolidated Rolling Stock Co.	Bridgeport, Conn.	13 11
Cudahy Refrigerator Line	South Omaha, Neb.	11 21
Conda Cattle Car Co.	Chicago, Ill.	1 73
Crocker Chair Co.	Chicago, Ill.	42
Cold Blast Transportation Co.	Kansas City, Mo.	1 33
Chicago, Boston & Liverpool Refrigerator Line	St. Albans, Vt.	113 61
Ellsworth & Co. J. W.	Chicago, Ill.	58
Fraser Lubricating Co.	Chicago, Ill.	51
Fairbank & Co. N. K.	Chicago, Ill.	67
Iron Car Express Coal Line	Atlanta, Ga.	67
Hicks Stock Car Co.	Chicago, Ill.	11
Morris & Co. Refrigerator Line	Chicago, Ill.	06
Merchants' Despatch Transportation Co.	New York City	136 03
National Despatch Line	St. Albans, Vt.	1,897 14
Peerless Tank Line	Cleveland, O.	2 03
Polar Refrigerator Car Co.	Kansas City, Mo.	44
Rend & Co. W. P.	Chicago, Ill.	14 80
Swift Refrigerator Transportation Co.	Chicago, Ill.	4 12
Southern Iron Car Line	Atlanta, Ga.	5 75
St. Louis Refrigerator Car Co.	St. Louis, Mo.	44
Street's Stable Car Lines	Chicago, Ill.	2 84
Somer's Coal Co.	Columbus, O.	1 33
Sun Oil Line	Toledo, O.	6 17
Thatcher & Co. A. T.	Chicago, Ill.	89
Sheboygan Chair Co.	Chicago, Ill.	44
Union Refrigerator Transit Co.	St. Louis, Mo.	3 69
Union Tank Line	New York City	157 49
Wells & Co. T. E.	Chicago, Ill.	67
Total		$2,405 85

NOTE.—Above statement includes payments by the Michigan Air Line Ry., as they cannot be separated from C. D. & C. G. T. Junction Ry.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

March 14, J. Adair, carpenter, Ft. Gratiot. Run over; accidental.
March 24, —— Travers, car driver, Port Huron. Highway collision; accidental.
August 10, G. Blount, citizen, Detroit. Highway crossing; own carelessness.
December 30, T. McPartlan, citizen, Detroit. Highway crossing; accidental.

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INJURED.

February 16, E. Chamberlain, policeman, Ft. Gratiot, Getting off train; carelessness.
March 17, J. Connolly, switchman, Ft. Gratiot. Coupling; carelessness.
March 20, M. Hemmingway, trespasser, Detroit. Walking on track; carelessness.
March 23, J. Chrysler, section foreman, Port Huron. Cable slipped, unloading earth; accidental.
March 23, J. Gibbons, laborer, Port Huron. Cable slipped, unloading earth; accidental.
March 29, J. F. Ronan, switchman, Ft. Gratiot. Coupling; carelessness.
April 19, J. Dunsmore, switchman, Ft. Gratiot. Coupling; carelessness.
April 28, H. Warbarton, trespasser, Milwaukee Junction, Walking on track; carelessness.
April 30, J. McKeever, yard conductor, Ft. Gratiot, Coupling; carelessness.
May 2, A. McCullough, brakeman, Lenox. Coupling; carelessness.
July 11, H. Davis, switchman, Ft. Gratiot. Coupling; carelessness.
July 13, J. Roche, M. C. R. R. employé, West Detroit. Crossing track; carelessness.
August 15, S. Bray, switchman, Ft. Gratiot. Coupling; carelessness,
August 22, B. Bradshaw, brakeman, C. & G. T. Junction. Fell off train; accidental.
October 30, A. H. Steele, citizen, Detroit. Highway crossing; carelessness.
November 3, T. Cooper, switchman, Ft. Gratiot. Coupling; carelessness.
November 5, J. S. Morris, drover, tunnel yard. Rough switching; accidental.
November 12, E. Ronan, switchman, Ft. Gratiot. Coupling; carelessness.
December 26, L. Leonard, switchman, tunnel yard. Coupling; carelessness.
December 31, T. Allen, trespasser, Detroit. On track; carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars					10	
Derailments						
Falling from trains					1	
Frogs						
Getting on and off trains					1	1
Highway crossings			8			1
Miscellaneous		1			2	1
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						4
Total		1	8		14	7

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of persons injured during the year	20
Number of casualties purely accidental	7
Number resulting from lack of caution, carelessness, or misconduct	14
Trespassers and tramps killed or injured	8

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		2	2
Conductors			
Engineers			
Firemen			
Laborers		1	1
Shopmen	1		1
Yardmen		9	9
Not classified above		2	2
Total	1	14	15

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STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

William J. Spicer, general manager, and James H. Muir, accountant, of the Chicago, Detroit & Canada Grand Trunk Junction Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,
W. J. SPICER.
JAS. H. MUIR.

[L. S. OF R. R.]
Subscribed and sworn to before me this 23th day of March, A. D., 1892.
[L. S.]

L. F. LANG,
Notary Public Wayne Co. Mich.

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ANNUAL REPORT

OF THE

CINCINNATI, SAGINAW & MACKINAW RAILROAD CO.,

For year the ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President. A. W. WRIGHT, Alma, Mich.
Vice President, L. J. SEARGEANT, Montreal, Province of Quebec.
Secretary and Treasurer, JAS. H. MUIR, Detroit, Mich,
Manager, W. J. SPICER, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Mechanical Superintendent, HERBT. ROBERTS, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, GEO. B. REEVE, Chicago, Ill.
General Passenger and Ticket Agent, W. E. DAVIS, Chicago, Ill.
General Freight Agent, DAVID BROWN, Chicago, Ill.
Solicitor, E. W. MEDDAUGH, Detroit, Mich.

DIRECTORS.

A. W. WRIGHT, Alma, Mich.
L. J. SEARGEANT, Montreal, Province of Quebec.
W. R. BURT, Saginaw, Mich.
F. C. STONE, Saginaw, Mich.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
S. O. FISHER, West Bay City, Mich.
Terms expire April 19, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—Articles of association dated December 26, 1889, and filed December 30, 1889.

Number of stockholders at date of last election	8
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$676,500

Date of annual meeting of stockholders,—Third Tuesday in April.
Fiscal year of company ends,—December 31.
General offices of the company are located at Detroit, and Saginaw (E. S.), Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total Income		$184,731 05
Total expenses including taxes	$143,863 82	
Net income		40,867 23
Interest on funded debt	$84,000 00	
Balance for the year, deficit	$43,132 77	
Balance (loss) Nov. 1, to Dec. 31. 1890	7,937 07	
Items not inclued above, as follows:		
Advances by the Chicago & Grand Trunk R'y Co., and Grand Trunk R'y Co. of Canada from Nov. 1, 1890, to Dec. 31, 1891, under traffic agreement		$44,685 99
Balance forward to next year		6,383 85
	$51,069 84	$51,069 84

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,500,000 00
Par value of shares		$100 00	
Number of shares issued	15,000		
Amount paid in on common		$1,500,000 00	
Total amount paid in, as per books of the company			$1,500,000 00
Paid in per mile of road owned by company, 53 miles			$28,301 88

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, issued Jan. 1, 1890	5%	January 1, 1920	New York	$1,680,000 00
Total funded debt				$1,680,000 00

UNFUNDED DEBT.

For current balances		$73,320 17
Total unfunded debt		$73,320 17

RECAPITULATION.

Total funded debt	$1,680,000 00
Total unfunded debt	73,320 17
Total debt liabilities	$1,753,320 17
Amount of debt liabilities per mile of road (53 miles)	$33,081 51
Total amount of stock and debt	3,253,320 17
Stock and debt per mile of road (53 miles)	61,383 40

GENERAL BALANCE SHEET.—DR.

Construction account		$3,194,699 09
Cash items:		
Cash	$16,356 21	
Due from agents	3,310 22	
		19,666 43
Other assets:		
Materials and supplies	$1,669 57	
Debit balances from companies and individuals	30,901 23	
		32,570 80
Profit and loss		6,383 85
Total		$3,253,320 17

GENERAL BALANCE SHEET.—CR.

Capital stock	$1,500,000 00	
Funded debt	1,680,000 00	
		$3,180,000 00
Unfunded debt:		
Interest unpaid	$48,383 85	
Vouchers and accounts	17,128 59	
Salaries and wages (paid January, 1892)	7,807 78	
		73,320 17
Total		$3,253,320 17

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased—November 1, 1890.	
Original cost to present company, of road and equipment	$3,180,000 00
Amount expended since purchase, account of construction	14,699 09
Total cost to date of report	$3,194,699 09

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Average cost per mile of road (not including sidings, 53 miles)	$60,277 34
Proportion of cost for Michigan	3,194,699 09

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$14,324 95
New fences	374 14
Total	$14,699 09
Total charges to property account as above	$14,699 09
Net addition to property account	14,699 09

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$46,228 77	
Through fares	9,991 25	
Total passenger fares	$56,220 02	
Express and baggage	1,155 60	
Mails	2,245 05	
Total passenger department earnings		$59,620 67
Proportion for Michigan	$59,620 67	
Per train mile	47	
Per mile of road	1,124 92	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$106,273 39	
Through traffic	18,406 06	
Total freight department earnings		$124,679 45
Proportion for Michigan	$124,679 45	
Per train mile	2 41	
Per mile of road	2,352 44	
Total transportation earnings		$184,300 12
Transportation earnings per mile of road	$3,477 36	
Transportation earnings per train mile	1 04	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph, etc.		430 93
Total earnings from operation of road		$184,731 05
Total earnings per mile of road	$3,485 49	
Total earnings per train mile	1 04	
Proportion of taxable earnings for Michigan		184,731 05
Total taxable earnings per mile of road in Michigan	3,485 49	
Total income from all sources		184,731 05
Proportion of income for Michigan		$184,731 05

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$14,438 86
Renewals of rails	615 81
Renewals of ties	
Repairs of bridges, including culverts and cattle guards	1,708 99
Repairs of fences, road crossings and signs	246 38
Repairs of buildings	2,571 17
Total	$19,581 21

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$10,454 89
Repairs of passenger cars	6,218 76
Repairs of freight cars	5,113 10
Total	$21,786 25

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$17,618 21
Water supply	1,044 32
Oil and waste	1,379 34
Locomotive service	20,255 16
Passenger train service	5,878 86
Passenger train supplies	565 65
Freight train service	25,776 54
Freight train supplies	1,331 00
Mileage of freight cars	3,602 99
Telegraph expenses (maintenance and operating)	4,522 20
Damage and loss of freight and baggage	418 40
Damages to property and cattle	135 00
Agents and station service	9,044 36
Station supplies	900 30
Total	$92,472 33

GENERAL EXPENSES.

Salaries of the general officers of the company, Salaries of clerks in general offices, Law expenses } Paid by the Chicago & G. T. R'y Co.	
Insurance	$562 45
Stationery and printing	3,277 93
Outside agencies and advertising	73 33
Contingencies	727 08
Taxes	5,383 24
Total	$10,024 03

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	13.61	$19,581 21
Maintenance of motive power and cars	15.14	21,786 25
Conducting transportation	64.28	92,472 33
General expenses, including taxes	6.97	10,024 03
Total operating expenses and taxes	100.00	$143,863 82
Operating expenses and taxes per mile of road		$2,714 41
Operating expenses and taxes per train mile run, for trains earning revenue (177,913 miles)		81
Proportion of operating expenses and taxes for Michigan		143,863 82
Percentage of expenses to earnings	77.88	
Net earnings per mile of road		771 03
Net earnings per train mile		23

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Durand to West Bay City, January 11, 1890.

MAIN LINE.

	Miles.
In Michigan, from Durand to West Bay City	53.00
Total length completed	53.00
Total length of road belonging to this company	53.00
Total length of road belonging to this company in Michigan	53.00
Aggregate length of sidings, spurs and other tracks not above enumerated	28.99
Aggregate length of tracks belonging to this company computed as single track	81.99

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	1	299
Iron bridges	2	64
Combination bridges	2	281
Wooden trestles	31	8,796
Total	36	9,440

Draw Bridges in Michigan.

How many on your line?	3
Where located, when built, and length of draw span:	

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One at Saginaw river, built in 1889, length of draw span 194 feet; One 2 miles north of Batcheldors, built in 1889, 88 feet long; One 3 miles south of West Bay City, built in 1889, 88 feet long.

Character of structure:
Truss.

Material of which constructed:
1 stone and iron and 2 of wood.

Height above water, and depth of water under bridge:
Above water 20 feet, depth of water 12 feet.

How swung, by engine or hand power:
Hand power.

Approaches straight or curved:
Curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signalled?
Yes; signaled by semaphore.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Flint & Pere Marquette R. R. at Maple street, Saginaw (E. S.)
Flint & Pere Marquette R. R. at South Saginaw (F. & P. M. Belt).
Flint & Pere Marquette R. R. at Saginaw (E. S.) dead line.
Michigan Central R. R. at Emerson street, Saginaw (E. S.)
Michigan Central R. R. north of river bridge, Saginaw (E. S.)
Flint & Pere Marquette R. R. north of river bridge, Saginaw (E. S.)
Michigan Central R. R. at Saginaw (E. S.) Wright's spur.
Flint & Pere Marquette R. R. at Mershons.
Michigan Central R. R. at Lafayette street, West Bay City.

At what crossings are interlocking and derailing switches in operation?
3 at Saginaw East.
3 at Saginaw West.
1 at Saginaw South.
1 at Merahons.
2 at West Bay City.

What pattern or patterns have you adopted?
Union Switch & Signal Company's.

Number of crossings of highways at grade in this State	96
Number of crossings of highways at grade in this State at which there are gates or flagmen	12

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Plank blocking.

Stations.

Number of stations on whole line	21
Same in Michigan	21

Employés.

Number persons regularly employed on all roads operated by company, including officials	144
Same in Michigan	144

Classify your employes as per following list:

	Number.
Baggagemen	2
Brakemen	8
Conductors	5
Engineers	9
Firemen	12
Laborers	44
Shopmen	2
Yardmen	12
Others	50

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	116

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Road Bed and Track.

Number of track sections in Michigan	8
Average length of sections (miles)	6¾
Average number of men in each section gang	4
Number of new ties put in whole line during the year	5,728
Number of new ties put in track in Michigan	5,728
Average number of new ties per mile of road	108

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	4	$20,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	4	14,000 00
Total	8	$34,000 00
Number of passenger cars—12 wheel, including official cars	7	$21,000 00
Number of passenger cars— 8 wheel, including official cars	5	15,000 00
Number of combination cars	2	3,000 00
Number of box freight cars	30	12,000 00
Number of platform cars	65	16,250 00
Number of conductors' way cars	2	600 00
Other cars	1	500 00
Total	113	$68,350 00
Grand total		$102,350 00

Number of locomotives equipped with power brakes	6
Number of passenger train cars equipped with power brakes	14

Number of freight cars equipped with power brakes:
None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse Air Brake; 6 locomotives and 14 passenger cars.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Not yet; experimenting.

How are your passenger cars heated?
Baker heater (hot water).

MILEAGE TRAFFIC, ETC.

TRAIN MILEAGE.

Miles run by passenger trains during the year	118,470
Miles run by freight trains during the year	28,753
Miles run by mixed trains	30,690
Total mileage of trains earning revenue	177,913

PASSENGER TRAFFIC.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	7,960		
Number of local passengers carried	135,600		
Total number of passengers carried	143,560		
Total passenger mileage or passengers carried one mile	2,683,700		
Average distance traveled by each passenger		18.7	
Average amount received from each passengar			$0 39.16
Average rate of fare per mile for through passengers			02.37
Average rate of fare per mile for local passengers			02.04
Average rate of fare per mile for all passengers			02.09

FREIGHT TRAFFIC.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	30,132		
Number of tons of local freight carried	171,232		
Total tons of freight carried	201,364		
Total mileage of through freight	1,592,869		
Total mileage of local freight	6,063,577		
Total freight mileage or tons carried one mile	7,356,446		

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	Miles.	Rate.
Average ton haul for through freight	53.00	
Average ton haul for local freight	35.41	
Average ton haul for all freight	35.02	
Average amount received for each ton haul		$0 61.92
Average rate per ton per mile received for through freight		01.16
Average rate per ton per mile received for local freight		01.75
Average rate per ton per mile received for all freight		01.68

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	6,694
Flour	1,763
Provisions (beef, pork, lard, etc.)	2,439
Animals	1,033
Other agricultural products	4,633
Lumber and forest products	95,598
Coal	932
Plaster, lime and cement	1,246
Salt	65,554
Petroleum	164
Railroad iron, iron and steel rails	1,656
Pig and bloom iron	187
Other iron and castings	816
Stone, brick and sand	351
Manufactures—articles shipped from point of production	4,262
Merchandise and other articles not enumerated above	14,036
Total forwarded	201,364

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	6,694	3.32
Flour	1,763	.88
Provisions (beef, pork, lard, etc.)	2,439	1.21
Animals	1,033	.51
Other agricultural products	4,633	2.30
Lumber and forest products	95,598	47.47
Coal	932	.46
Plaster, lime and cement	1,246	.62
Salt	65,554	32.56
Petroleum	164	.08
Railroad iron, iron and steel rails	1,656	.82
Pig and bloom iron	187	.09
Other iron and castings	816	.41
Stone, brick and sand	351	.18
Manufactures—articles shipped from point of production	4,262	2.12
Merchandise and other articles not enumerated above	14,036	6.97
Total tons carried	201,364	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company (transferred from American Express Company May 1, 1891) pay one and a half times the company's local first-class freight rates per 100 lbs. on all local merchandise. For all produce one and a fourth times the company's local first-class freight rates per 100 lbs. For all through business, the same rate as produce. Railway company takes freight at depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Cannot state; Postal Telegraph-Cable Company.

Transportation Companies.

SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Company, Chicago, Ill. $197 16

Three cents per car mile paid for some cars and others only kept in repair. Pullman Company get fares for berths or seats.

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Fast Freight Lines.

To what fast freight lines or other transportation companies running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Armour Refrigerator Line	Chicago, Ill.	$28 69
American Refrigerator Transit Co.	St. Louis, Mo.	29
A. T. Thatcher & Co.	Chicago, Ill.	69
Anglo-American Refrigerator Car Co.	Chicago, Ill.	4 81
Conda Cattle Car Co.	Chicago, Ill.	4 86
Chicago Refrigerator Car Co.	Lafayette, Ind.	20 14
Hicks Stock Car Co.	Chicago, Ill.	29 76
Iron Car Express Coal Line	Atlanta, Ga.	1 20
J. W. Ellsworth & Co.	Chicago, Ill.	79
Merchants' Despatch Transportation Co.	New York City	29 87
Michigan Salt Line	East Saginaw, Mich.	810 27
National Despatch Line	St. Albans, Vt.	258 17
Street's Western Stable Car Line	Chicago, Ill.	12 42
Swift's Refrigerator Line	Chicago, Ill.	12 85
St Louis Refrigerator Car Co.	St. Louis, Mo.	1 74
Southern Iron Car Line	Atlanta, Ga.	4 58
Union Tank Line	New York City	8 53
Union Refrigerator Transit Co.	St. Louis, Mo.	1 17

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 7, Jos. Carpenter, trespasser, Flushing. Struck by train; no inquest.
August 18, Unknown man, trespasser, Durand. Walking on track; company not to blame; his carelessness.
November 18, W. Johnson, car repairer, West Bay City. Run over; company exonerated; his fault.
November 19, C. Reynolds, citizen, Carrolton. Struck on crossing; no blame to company.

INJURED.

March 16, E. W. Dimmick, yard conductor, Saginaw. Coupling; his carelessness.
March 16, G. Doust, conductor, Montrose. Closing coach door; accidental.
April 1, G. Skimmings, passenger, McClures. Getting off train; his carelessness.
April 16, A. Schwanneke, yard brakeman, Saginaw. Coupling; his carelessness.
April 28, W. R. Whalen, yard brakeman, Saginaw. Thrown off engine by piece of wood striking him; accidental.
May 5, S. Loupe, trespasser, Flushing. Getting off train; his carelessness.
June 25, H. M. Norris, yard clerk, Saginaw. Engine derailed; accidental.
August 7, Unknown lady, passenger, Salzburg. Getting off train; her carelessness.
October 31, M. Bortle, yard brakeman, Saginaw. Uncoupling; his carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars					3	
Derailments					1	
Falling from trains						
Frogs						
Getting on and off trains				2		
Highway crossings			1			
Miscellaneous		1			2	
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks			2			
Total		1	3	2	6	1

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SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of persons injured during the year	9
Number of casualties purely accidental	3
Number resulting from lack of caution, carelessness, or misconduct	8
Trespassers and tramps killed or injured	2

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors		1	1
Engineers			
Firemen			
Laborers			
Shopmen	1		1
Yardmen		4	4
Not classified		1	1
Total	1	6	7

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

William J. Spicer, general manager, and James H. Muir, secretary and treasurer, of the Cincinnati, Saginaw & Mackinaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,
W. J. SPICER.
JAS. H. MUIR.

[L. S. OF R. R.]

Subscribed and sworn to before me this 28th day of March, A. D., 1892.

[L. S.]

L. F. LANG,
Notary Public, Wayne Co. Mich.

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ANNUAL REPORT

OF THE

DETROIT, GRAND HAVEN & MILWAUKEE RAILWAY CO.,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, LEWIS J. SEARGEANT, Montreal, Province of Quebec.
Assistant to the President, CHARLES PERCY, Montreal, Province of Quebec.
Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich.
General Manager, W. J. SPICER, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Mechanical Superintendent, HERBERT ROBERTS, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, JOHN W. LOUD, Detroit, Mich.
Solicitor, E. W. MEDDAUGH, Detroit, Mich.

DIRECTORS.

LEWIS J. SEARGEANT, Montreal, Province of Quebec.
JOHN PRIDGEON, JR., Detroit, Mich.
ELIJAH W. MEDDAUGH, Detroit, Mich.
HENRY HOWARD, Port Huron, Mich.
GEORGE F. MOORE, Detroit, Mich.
GEORGE JEROME, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
CHARLES STIFF, Hamilton, Ontario.
JOSEPH HOBSON, Hamilton, Ontario.

Terms expire first Monday in October, 1892, or when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—March 7, 1884, as the Detroit & Pontiac Railroad Co.

Number of stockholders at date of last electon	11
Number of stockholders in Michigan at same date	5
Amount of full paid stock held in Michigan at same date	$250 00

Date of annual meeting of stockholders—First Monday in October.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Michigan.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$1,200,998 23
Total expenses, including taxes	$394,226 29	
Net income		$806,771 94
Interest on the funded debt	$324,500 00	
Interest on the unfunded debt	14,723 32	
Rentals of buildings, tracks, etc.	4,865 04	
Rentals of engines and cars	19,500 00	
		363,588 36
Balance for the year, deficit	$56,816 42	
Balance paid by Grand Trunk Railway Company		$56,816 42
	$56,816 42	$56,816 42

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,500,000 00
Par value of shares	$50 00		
Number of shares issued	30,000		
Amount paid in on common		$1,500,000 00	
Total amount paid in as per books of the company			$1,500,000 00
Paid in per mile of road owned by company (miles, 189)			$7,936 51

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Equipment mortgage bonds issued Nov. 14, 1878	6 %	Nov. 14, 1918	N. Y. or London.	$2,000,000 00
Consolidated mortgage bonds issued Nov. 15, 1878	6 %	Nov. 15, 1918	N. Y. or London.	3,200,000 00
Mortgage on land forming part of depot at Detroit.	5 %	Oct. 1, 1900	London	146,000 00
Mortgage on land forming part of depot at Detroit.	6½ %	On demand	Detroit	80,000 00
Total funded debt				$5,426,000 00

UNFUNDED DEBT.

For current balances	$794,673 32
Total unfunded debt	$794,673 32

RECAPITULATION.

Total funded debt	$5,426,000 00
Total unfunded debt	794,673 32
Total debt liabilities	$6,220,673 32
Amount of debt liabilities per mile of road (189 miles)	$32,913 61
Total amount of stock and debt	7,720,673 32
Stock and debt per mile of road (189 miles)	40,850 12

GENERAL BALANCE SHEET.—Dr.

Construction and equipment account		$6,998,649 90
Cash items:		
Cash	$28,701 10	
Due from agents	45,655 70	
		74,356 80
Other assets:		
Materials and supplies	$79,693 32	
Debit balances from companies and individuals	567,973 30	
		647,666 62
Total		$7,720,673 32

GENERAL BALANCE SHEET.—Cr.

Capital stock	$1,500,000 00	
Funded debt	5,426,000 00	
		$6,926,000 00
Unfunded debt:		
Interest unpaid (accrued and unclaimed)	$80,596 40	
Notes payable	50,000 00	
Vouchers and accounts	664,076 92	
		794,673 32
Total		$7,720,673 32

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COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased—September 4, 1878; transferred by receiver October 19, 1878.	
Original cost to present company of road and equipment	$6,700,000 00
Amount expended since purchase, account of construction	290,034 90
Amount expended since purchase, account of equipment	8,615 00
Total cost to date of report	$6,998,649 90
Average cost per mile of road (not including sidings, 189 miles)	$37,029 89
Proportion of cost for Michigan	6,998,649 90

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$9,754 98
New buildings	843 17
Total	$10,598 15
Total charges to property account as above	$10,598 15
Net addition to property account	$10,598 15

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$450,957 66	
Through fares	20,983 77	
Total passenger fares	$471,941 48	
Express and baggage	24,273 88	
Mails	26,651 77	
Total passenger department earnings		$522,867 08
Proportion for Michigan	$522,867 08	
Per train mile	99	
Per mile of road	2,766 49	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$570,036 27	
Through traffic	97,968 31	
Total freight department earnings		$668,004 58
Proportion for Michigan	$668,004 58	
Per train mile	1 51	
Per mile of road	3,534 42	
Total transportation earnings		$1,190,871 66
Transportation earnings per mile of road	$6,300 91	
Transportation earnings per train mile	1 23	

Miscellaneous receipts from operating account other than for transportation as follows:

From rentals of tracks or terminals	$8,097 56	
From other sources	2,029 01	
Total		10,126 57
Total earnings from operation of raod		$1,200,998 23
Total earnings per mile of road	$6,354 49	
Total earnings per train mile	1 24	
Proportion of earnings for Michigan		$1,200,998 23
Total earnings per mile of road in Michigan	6,354 49	
Total income from all sources		$1,200,998 23
Proportion of income for Michigan		$1,200,998 23

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ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$67,615 79
Renewals of rails	10,279 82
Renewals of ties	29,451 19
Repairs of bridges, including culverts and cattle guards	20,635 21
Repairs of fences, road crossings and signs	7,394 35
Repairs of buildings	16,872 76
Total	$152,299 12

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$49,132 71
Repairs of passenger cars	29,084 13
Repairs of freight cars	46,192 91
Total	$124,409 75

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$95,154 14
Water supply	4,016 99
Oil and waste	7,532 86
Locomotive service	98,261 55
Passenger train service	22,078 93
Passenger train supplies	5,490 00
Mileage of passenger cars	6,049 66
Freight train service	86,165 23
Freight train supplies	1,350 00
Mileage of freight cars	14,801 22
Telegraph expenses (maintenance and operating)	13,906 24
Damage and loss of freight and baggage	1,958 22
Damages to property and cattle	819 68
Personal injuries	15,864 88
Agents and station service	175,756 86
Station supplies	10,889 53
Total	$505,505 99

GENERAL EXPENSES.

Salaries of the general officers of the company	$14,556 67
Salaries of clerks in general offices	28,630 97
Law expenses	2,427 64
Insurance	4,895 66
Stationery and printing	12,881 24
Outside agencies and advertising	15,478 48
Contingencies	6,543 75
Taxes	26,572 02
Total	$112,011 43

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	17.03	$152,299 12
Maintenance of motive power and cars	13.91	124,409 75
Conducting transportation	56.53	505,505 99
General expenses, including taxes	12.53	112,011 43
Total operating expenses and taxes	100.00	$894,226 29

Operating expenses and taxes per mile of road	$4,731 86
Operating expenses and taxes per train mile run for trains earning revenue (967,615 miles)	92
Proportion of operating expenses and taxes for Michigan	894,226 29
Percentage of expenses to earnings	74.46
Net earnings per mile of road	1,623 13
Net earnings per train mile	32

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Detroit, Mich., to Grand Haven, Mich., November 22, 1858.

MAIN LINE.

	Miles.
In Michigan, from Detroit to Grand Haven	189
Total length completed	189
Total length of road belonging to this company	189
Total length of road belonging to this company in Michigan	189
Aggregate length of sidings, spurs, and other tracks not above enumerated	64.64
Aggregate length of tracks belonging to this company, computed as single track	253.64

Gauge of track, 4 feet 8½ inches.

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Iron bridges	21	2,777
Wooden trestles	42	3,045
Total	63	5,822

Swing Bridges in Michigan.

How many on your line?
Two.

Where located, when built, and length of draw span:
Near Ferrysburgh, one, in 1870, two openings 60 feet each.
" " " 1884, " " 75 "

Character of structure:
Truss.

Material of which constructed:
Iron.

Height above water, and depth of water under bridge:
1870 bridge, height 9 feet 6 inches, depth of water 16 feet.
1884 bridge, height 8 feet 7 inches, depth of water 24 feet.

How swung, by engine or hand power:
Hand power.

Approaches straight or curved:
Two straight, two curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled?
Yes, and by distant semaphores.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Grand Trunk R'y 4 miles west of Detroit.
Detroit & Bay City R. R. 4 miles west of Detroit.
Michigan Air Line R'y 1 mile east of Pontiac.
Flint & Pere Marquette R. R. at Holly.
Chicago & Grand Trunk R'y at Durand.
Toledo, Ann Arbor & North Michigan R'y at Durand.
Cincinnati, Saginaw & Mackinaw R. R. at Durand.
Jackson, Lansing & Saginaw R. R. at Owosso.
Detroit, Lansing & Northern R. R. at Ionia.
Lowell & Hastings R. R. at Lowell.
Grand Rapids & Indiana R. R. at Grand Rapids.
Chicago & West Michigan R'y at Grand Rapids and Ferrysburg.

What railroads cross your road either over or under your grade in this State, and where?
Under:
Muskegon, Grand Rapids & Indiana R. R. at Berlin.

Number of crossings of highways at grade in this State	251
Number of crossings of highways at grade in this State at which there are gates or flagmen	55
Number of crossings at which there are electric or automatic signals	3

What pattern or patterns in use?
Ordinary vibrating 8-inch bell.

Number of crossings of highways over or under railroad (over 14, under 9)	23
Number of highway bridges 18 feet above track	9
Number of highway bridges less than 18 feet above track	5

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by act 174, Session Laws 1884?
Yes.

How are they treated?
With plank blocking.

Stations.

Number of stations on whole line	42
Same in Michigan	42

Employés.

Number persons regularly employed on all roads operated by company, including officials.	1,096
Same in Michigan	1,096

Classify your employés as per following list:	Number.
Baggagemen	28
Brakemen	62
Conductors	28
Engineers	45
Firemen	46
Laborers	370
Shopmen	76
Yardmen	41
Others	405
Total	1,096

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	385

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:
Fencing completed.

Road Bed and Track.

Number of track sections in Michigan	37
Average length of sections (miles)	5.1
Average number of men in each section gang	4
Number of new ties put in whole line during the year	92,573
Number of new ties put in track in Michigan	92,573
Average number of new ties per mile of road	490
New rails put in track, steel (tons 350) miles, 3.42.	
Total miles of track laid with new rails	3.42

Bridges and Culverts.

Timber culverts replaced during the year:	
With iron pipe—number	6
With sewer pipe—number	1

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	29	$140,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	12	39,000 00
Total	41	$179,000 00
Number of passenger cars—12 wheel, including official cars	2	$8,000 00
Number of passenger cars— 8 wheel, including official cars	23	77,000 00
Number of express, baggage and combination cars	20	38,600 00
Number of box freight cars	362	135,750 00
Number of stock cars	44	17,600 00
Number of platform cars	199	54,725 00
Number of conductors' way cars	21	14,700 00
Other cars:		
Auxiliary 1		
Charcoal 18		
Furniture 10		
	29	11,700 00
Total	700	$358,075 00
Grand total		$537,075 00

Number of locomotives equipped with power brakes	20
Number of passenger train cars equipped with power brakes	45

Number of freight cars equipped with power brakes:
None.

What patterns of power brakes have you in use and number of locomotives and cars with each:
Westinghouse air brake; locomotives 20, cars 45.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
In abeyance; waiting result of experiments.

What pattern or patterns have you adopted for use?
McCree & Aikman, but withdrawing them.

How are your passenger cars heated?
Baker hot water heaters.

MILEAGE, TRAFFIC ETC.

Train Mileage.

Miles run by passenger trains during the year	418,048
Miles run by freight trains during the year	332,369
Miles run by mixed trains	217,198
Total mileage of trains earning revenue	967,615

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Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	6,085		
Number of local passengers carried	648,682		
Total number of passengers carried	654,717		
Total passenger mileage or passengers carried one mile	20,306,201		
Average distance traveled by each passenger		31.00	
Average amount received from each passenger			$0 72.08
Average rate of fare per mile for through passengers			01.84
Average rate of fare per mile for local passengers			02.35
Average rate of fare per mile for all passengers			02.32

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	124,299		
Number of tons of local freight carried	549,142		
Total tons of freight carried	673,441		
Total mileage of through freight	23,428,613		
Total mileage of local freight	30,889,665		
Total freight mileage or tons carried one mile	54,318,278		
Average ton haul for through freight		189.00	
Average ton haul for local freight		56.30	
Average ton haul for all freight		80.70	
Average amount received for each ton haul			$0 99.19
Average rate per ton per mile received for through freight			00.42
Average rate per ton per mile received for local freight			01.85
Average rate per ton per mile received for all freight			01.23

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	79,664
Flour	22,161
Provisions (beef, pork, lard, etc.)	4,628
Animals	24,727
Other agricultural products	48,014
Lumber and forest products	143,823
Coal	31,380
Plaster, lime and cement	16,488
Salt	1,875
Petroleum	2,954
Railroad iron, iron and steel rails	202
Pig and bloom iron	4,052
Other iron and castings	4,870
Ores	43
Stone, brick and sand	38,009
Manufactures—articles shipped from point of production	32,240
Merchandise and other articles not enumerated above	113,649
Total forwarded	558,774

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	80,299	11.92
Flour	94,187	13.99
Provisions (beef, pork, lard, etc.)	4,946	.73
Animals	24,851	3.69
Other agricultural products	68,414	10.16
Lumber and forest products	143,823	21.36
Coal	31,380	4.66
Plaster, lime and cement	22,048	3.27
Salt	1,875	.28
Petroleum	2,954	.44
Railroad iron, iron and steel rails	202	.03
Pig and bloom iron	6,991	1.04
Other iron and castings	4,895	.73
Ores	43	.01
Stone, brick and sand	38,009	5.64
Manufactures—articles shipped from point of production	26,558	3.94
Merchandise and other articles not enumerated above	121,971	18.11
Total tons carried	673,441	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run over your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

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National Express Company (transferred from the American Express Company May 1, 1891), has exclusive right for passenger trains and pays $50.00 per day for not exceeding 5,000 pounds per day and 60 cents per 100 pounds excess, carrying light freight, money, etc., and taking freight to and from depots.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?
189 miles of single wire belonging to the Western Union Telegraph Company using the railway company's poles. A second wire 45½ miles long of same telegraph company with poles runs between Detroit and Holly.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?
Wagner Palace Car Company, New York, allowed mileage, amount paid $6,049.66.
Pullman Palace Car Company, Chicago, Illinois, keep cars in repair.
Both palace car companies get the fares for seats or berths.

Fast Freight Lines,

To what fast freight lines or other transportation companies, running cars upon your road not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Armour & Co.	Chicago, Ill.	$8 75
Anglo-American Refrigerator Car Co.	Chicago, Ill.	92
American Refrigerator Transit Co.	St. Louis, Mo.	11 86
Arms Palace Horse Car Co.	Chicago, Ill.	5 54
Burton Stock Car Co.	Buffalo, N. Y.	2 04
Chicago Refrigerator Car Co.	Lafayette, Ind.	34 15
Canada Cattle Car Co.	New York City, N. Y.	1 41
Cudahy Refrigerator Line	South Omaha, Neb.	2 01
Cutler & Savidge Lumber Co.	Spring Lake, Mich.	23 21
Crocker Chair Co.	Chicago, Ill.	31
Cold Blast Transportation Co.	Kansas City, Mo.	50
Frost Proof Car Co.	Boston, Mass.	1 19
Cudahy Milwaukee Refrigerator Line	Milwaukee, Wis.	2 01
C. B. Havens & Co.	Omaha, Neb.	50
Hicks Stock Car Co.	Chicago, Ill.	1 00
Hammond Refrigerator Line	Chicago, Ill.	130 45
Iron Car Express Coal Line	Atlanta, Ga.	1 85
J. W. Ellsworth & Co.	Chicago, Ill.	3 18
Keystone Palace Horse Car Co.	Chicago, Ill.	1 58
Live Poultry Transportation Co.	Chicago, Ill.	15 47
Manhattan Oil Co.	Lima, Ohio	1 25
Morris & Co.	Chicago, Ill.	171 98
Merchants' Dispatch Transportation Co.	New York, N. Y.	639 52
Michigan Ammonia Works	Detroit, Mich.	21 65
Michigan Salt Line	East Saginaw, Mich.	21 60
Menasha Woodenware Co.	Chicago, Ill.	80
National Dispatch Line	St. Albans, Vt.	3,356 99
National Linseed Oil Co.	Chicago, Ill.	50
Street's Western Stable Car Line	Chicago, Ill.	4 52
St. Charles Car Co.	St. Louis, Mo.	74
Southern Iron Car Line	Atlanta, Ga.	3 02
Swift's Refrigerator Line	Chicago, Ill.	7 20
Sun Oil Co.	Toledo, Ohio	45
T. E. Wells & Co.	Chicago, Ill.	1 00
Union Refrigerator Transit Co.	St. Louis, Mo.	42 67
Union Tank Line	New York, City	46 35
Union Iron Car Co.	Detroit, Mich.	32 16
W. P. Rend & Co.	Chicago, Ill.	1 94

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REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

February 2, T. McPartland, sealer, Detroit. Run over by cars in freight house; company exonerated; his carelessness.
April 8, G. Dennis, trespasser, Muir. Caught while climbing between cars; his fault.
October 2, H. Berleky, or Billings, passenger, Clarkston. Jumping from train in motion; his fault.
October 2, unknown man, trespasser, Detroit. Run over; intoxicated; his fault.

INJURED.

January 4, H. Lovett, engineer, Linden. Collision; accidental.
January 4, —— Hayball, fireman, Linden. Collision; accidental.
January 4, M. Hastings, baggageman, Linden. Collision; accidental.
January 4, R. Dowle, of G. E. Line, Linden. Collision; accidental.
January 4, G. J. Reid, passenger, Linden. Collision; accidental.
January 5, J. V. Dyer, switchman, Owosso. Coupling; his carelessness.
January 9, C. Anderson, brakeman, Spring Lake. Coupling; his carelessness.
January 10, W. Walker, brakeman, Fenton. Coupling; his carelessness.
January 13, B. Leitch, brakeman, Waterford. Coupling; his carelessness.
January 13, W. Judd, brakeman, St. Johns. Coupling; his carelessness.
January 14, F. Pesha, yard brakeman, L. S. & M. S. Junction. Coupling; his carelessness.
January 21, D. Fitzgerald, trespasser, Pontiac. Jumping off train; his carelessness.
January 27, R. Rosboro, conductor, Milwaukee Junction. Slipping from engine; accidental.
January 27, A. Lang, teamster, Detroit. Driving under gate while down; his fault.
February 12, J. Flannigan, brakeman, Detroit. Stepping on rail; accidental.
February 15, F. Canfield, trespasser, Drayton Plains. Getting on train; his carelessness.
February 23, John Ray, brakeman, Pontiac. Getting on brake beam of tender; accidental.
February 28, J. Jeffries, brakeman, St. Johns. Uncoupling; accidental.
March 2, F. Switzer, trespasser, Owosso Junction. Climbing between cars; his fault.
March 17, J. Drennan, brakeman, Ovid. Coupling; his carelessness.
March 18, W. King, brakeman, Durand. Coupling; his carelessness.
March 26, J. Drennan, brakeman, Drayton Plains. Coupling; his carelessness.
April 1, J. D. Fisk, brakeman, Grand Rapids. Coupling; his carelessness.
April 24, J. Dunn, trespasser, Detroit. Jumping on train; his carelessness.
May 7, C. J. Johnson, yard brakeman, Grand Haven. Coupling; his carelessness.
May 8, C. E. Kinnee, yard brakeman, Detroit. Falling from car; accidental.
June 29, P. Powell, passenger, Muir. Jumping off train, prisoner; his fault.
July 15, J. McGovern, brakeman, Coopersville. Coupling; his carelessness.
July 21, N. Nathan, brakeman, Detroit. Struck by bridge; his carelessness.
July 30, G. Weitzel, yard brakeman, Detroit. Coupling; his carelessness.
July 31, C. Kovasah, trespasser, Detroit. Thrown against car by train striking board which he was pulling from between cars; his carelessness.
August 26, J. Willis, yard brakeman, Detroit. Switching; his carelessness,
August 31, J. Dwyer, yard brakeman, Grand Rapids. Coupling; his carelessness.
September 3, W. Walker, brakeman, Holly. Falling from car; accidental.
September 8, T. Crowe, conductor, Clarkston. Face struck by coal spout; intoxicated, his carelessness.
September 13, J. Coffie, trackman, west of Nunica. Hand car struck; his carelessness.
September 14, R. Montgomery, trespasser, Milwaukee Junction. Walking on track; his carelessness.
September 27, J. Bunker, brakeman, Holly. Coupling; accidental.
October 13, J. D. Fisk, brakeman, Durand. Tripped on rail; accidental.
October 20, T. A. Hutchinson, yard conductor, Detroit. Uncoupling; his carelessness.
October 24, Jos. Wancug, citizen, Detroit. Crossing before train; his carelessness.
October 26, C. Whiting, brakeman, Waterford. Coupling; his carelessness.
October 27, T. Crowe, switchman, Detroit. Coupling; his carelessness.
November 2, J. L. Blanchard, brakeman, Ovid. Coupling; his carelessness.
November 7, E. J. Green, brakeman, Detroit. Hit by bridge; his carelessness.
November 11, T. Jackson, car sealer, Detroit. Struck by engine; his carelessness.
November 21, E. Pate, brakeman, Detroit. Struck by bridge; his carelessness.
November 24, W. Herendeen, brakeman, St. Johns. Coupling; his carelessness.
November 28, P. Kinney, brakeman, Royal Oak. Coupling; his carelessness.
December 10, R. Gunderson, yard brakeman, Detroit. Coupling; his carelessness.
December 12, J. Walrye, trespasser Detroit. Jumping from train; his carelessness.
December 15, F. Harm, teamster, Detroit. Leg of gate fell on him; accidental.
December 26, F. J. Haas, brakeman, Durand. Coupling; his carelessness.
December 27, F. H. Dow, brakeman, Pontiac. Coupling; his carelessness.
December 29, F. Haney, brakeman, Owosso. Uncoupling; his carelessness.
December 31, F. Chidester, brakeman, St. Johns. Coupling; his carelessness.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions				2	3	
Coupling cars					27	
Derailments						
Falling from trains					2	
Frogs						
Getting on and off trains	1			1	1	
Highway crossings						1
Miscellaneous		1			6	4
Overhead obstructions					3	
Trespassers on trains			1			4
Trespassers on tracks			1			2
Total	1	1	2	3	42	11

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of persons injured during the year	56
Number of casualties purely accidental	14
Number resulting from lack of caution, carelessness or misconduct	46
Persons killed or injured while intoxicated	2
Trespassers and tramps killed or injured	9

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen		1	1
Brakemen		26	26
Conductors		2	2
Engineers		1	1
Firemen		1	1
Laborers		1	1
Shopmen			
Yardmen	1	10	11
Not classified above			
Total	1	42	43

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

W. J. Spicer, general manager, and James H. Muir, secretary and treasurer, of the Detroit, Grand Haven & Milwaukee Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. J. SPICER.
JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D., 1892.

[L. S.] L. F. LANG,
Notary Public, Wayne Co., Michigan.

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ANNUAL REPORT

OF THE

MICHIGAN AIR LINE RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, L. J. SEARGEANT, Montreal, Canada.
Vice President, W. J. SPICER, Detroit, Mich.
Secretary, ROBT. WRIGHT, Montreal, Canada.
Accountant, JAS. H. MUIR, Detroit, Mich.
General Manager, W. J. SPICER, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Mechanical Superintendent, H. ROBERTS, Detroit.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, GEO. B. REEVE, Chicago, Ill.
General Passenger and Ticket Agent, W. E. DAVIS, Chicago, Ill.
General Freight Agent, DAVID BROWN, Chicago, Ill.
Attorney, E. W. MEDDAUGH, Detroit, Mich.

DIRECTORS.

L. J. SEARGEANT, Montreal, Canada.
W. J. SPICER, Detroit, Mich.
E. W. MEDDAUGH, Detroit, Mich.
HENRY HOWARD, Port Huron, Mich.
JOHN BELL, Belleville, Canada,
Terms expire September, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 18, 1875.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	3
Amount of full paid stock held in Michigan at same date	$1,500 00

Date of annual meeting of stockholders,—Last Wednesday of September.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$154,310 52
Total expenses, including taxes	$135,294 63	
Net income		$19,015 89
Interest on funded debt	$75,433 34	
Balance for the year, deficit	$56,417 45	
Items not included in above, as follows:		
Contribution from G. T. R. towards interest liabilities		$56,417 45

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,500,000 00
Par value of shares		$100 00	
Number of shares issued	3,000		
Amount paid in on common		$300,000 00	
Total amount paid in, as per books of the company			$300,000 00
Paid in per mile of road owned by company—105.60 miles			$2,840 91

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, January, 1882 (£ 310,000)	5%	January, 1902.	London, Eng.	$1,508,666 67
Total funded debt				$1,508,666 67

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$1,508,666 67
Total debt liabilities	1,508,666 67
Amount of debt liabilities per mile of road	14,286 61
Total amount of stock and debt	1,808,666 67
Stock and debt per mile of road	17,127 52

GENERAL BALANCE SHEET.—Dr.

Construction account	$1,772,442 80	
Equipment account	41,000 00	
		$1,813,442 80
Other assets:		
Debit balances from companies and individuals	$38,033 02	
		38,033 02
Total		$1,851,475 82

GENERAL BALANCE SHEET.—Cr.

Capital stock	$300,000 00	
Funded debt	1,508,666 67	
		$1,808,666 67
Unfunded debt:		
Interest unpaid	$37,716 67	
Vouchers and accounts	5,092 48	
		42,809 15
Total		$1,851,475 82

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—November, 1875.	
Original cost to present company of road and equipment	$300,000 00
Amount expended since purchase, account of construction	1,512,442 80
Amount expended since purchase, account of equipment	1,000 00
Total cost to date of report	1,813,442 80
Average cost per mile of road (not including sidings, 105.60 miles)	17,172 75
Proportion of cost for Michigan	1,813,442 80

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$700 22
Total	$700 22

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Total charges to property account as above		$700 22
Net addition to property account		$700 22

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$36,525 52	
Through fares	710 33	
Total passenger fares	$37,235 85	
Express and baggage	2,501 96	
Mails	7,282 52	
Total passenger department earnings		$47,020 33
Proportion for Michigan	$47,020 33	
Per train mile	25	
Per mile of road	445 27	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$96,520 55	
Through traffic	10,769 64	
Total traffic	$107,290 19	
Total freight department earnings		$107,290 19
Proportion for Michigan	$170,290 19	
Per train mile	56	
Per mile of road	1,016 00	
Total transportation earnings		$154,310 52
Transportation earnings per mile of road	$1,461 27	
Transportation earnings per train mile	81	
Total earnings from operation of road		$154,310 52
Total earnings per mile of road	$1,461 27	
Total earnings per train mile	81	
Proportion of taxable earnings for Michigan		154,310 52
Total taxable earnings per mile of road in Michigan	1,461 27	
Total income from all sources		154,310 52
Proportion of income for Michigan		154,310 52

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$26,328 09
Renewals of rails	5,337 77
Renewals of ties	12,750 67
Repairs of bridges, including culverts and cattle guards	3,279 03
Repairs of fences, road crossings and signs	4,766 20
Repairs of buildings	2,675 76
Total	$55,237 52

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$3,288 81
Repairs of passenger cars	2,063 68
Repairs of freight cars	5,586 29
Total	$10,933 78

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$12,453 22
Water supply	1,240 11
Oil and waste	442 48
Locomotive service	16,995 02
Passenger train service	3,702 60
Passenger train supplies	347 53
Freight train service	7,405 18
Freight train supplies	695 04
Telegraph expenses (maintenance and operating)	2,247 86
Damage and loss of freight and baggage	539 81
Damages to property and cattle	25 50
Personal injuries	224 23
Agents and station service	15,383 67
Station supplies	2,945 85
Total	$64,648 10

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GENERAL EXPENSES.

Salaries of clerks in general offices	$400 00
Law expenses	400 00
Insurance	478 30
Taxes	3,196 98
Total	$4,475 28

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	40.83	$55,287 52
Maintenance of motive power and cars	8.08	10,933 78
Conducting transportation	47.78	64,648 10
General expenses, including taxes	3.31	4,475 28
Total operating expenses and taxes	100.00	$135,294 63
Operating expenses and taxes per mile of road		$1,281 20
Operating expenses and taxes per train mile run, for trains earning revenue (191.248 miles)		71
Proportion of operating expenses and taxes for Michigan		$135,294 63
Percentage of expenses to earnings		87.6
Net earnings per mile of road		180 07
Net earnings per train mile		10

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Lenox to Jackson, September 1, 1884,

MAIN LINE.

	Miles.
In Michigan, from Lenox to Jackson	105.60
Total length of road belonging to this company in Michigan	105.60
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	8.85
Aggregate length of tracks in Michigan belonging to this company, computed as single track	114.45

Gauge of track—4 feet, 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	3	239
Iron bridges	1	70
Wooden trestles	73	5,991
Total	77	6,300

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?

Detroit & Bay City R. R. near Rochester.
Detroit, Grand Haven & Milwaukee R'y at Pontiac.
Flint & Pere Marquette R. R. at Wixom.
Toledo, Ann Arbor & North Michigan R'y at Hamburg.
Detroit, Lansing & Northern R. R. at South Lyon.
Jackson, Lansing & Saginaw R. R. near Jackson.

At what crossings are interlocking and derailing switches in operation?

Jackson, Lansing & Saginaw Division Michigan Central R. R. at Jackson.

What pattern or patterns have you adopted?

Union Switch & Signal Company's.

Number of crossings of highways at grade in this State	131
Number of crossings of highways at grade in this State at which there are gates or flagmen	2
Number of crossings of highways over or under railroad; over	2
Number of highway bridges 18 feet above track	2
Have safety guards been erected at over-head obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?

Filled in with wood planking.

Stations.

Number of stations on whole line	20
Same in Michigan	20

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Employés.

Number persons regularly employed on all roads operated by company, including officials	161
Same in Michigan	161

Classify your employés as per following list:

	Number.
Baggagemen	2
Brakemen	13
Conductors	10
Engineers	4
Firemen	4
Laborers	77
Shopmen	2
Yardmen	1
Others	47

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	215

Road Bed and Track.

Number of track sections in Michigan	14
Average length of sections (miles)	7
Average number of men in each section gang	4
Number of new ties put in whole line during the year	47,353
Number of new ties put in track in Michigan	47,353
Average number of new ties per mile of road	448
New rails put in track:	
Steel (tons 140) miles	1.33

Bridges and Culverts.

Timber culverts replaced during the year:	
With iron pipe, number	6

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	2	$14,000 00
Total	2	$14,000 00
Number of passenger cars—8 wheel, including official cars	1	$3,000 00
Number of express and baggage cars	1	1,000 00
Number of box freight cars	18	7,200 00
Number of platform cars	4	1,200 00
Total	24	$26,400 00

Number of locomotives equipped with power brakes	1
Number of passenger train cars equipped with power brakes	2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse Automatic.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
McCrea's patent coupler.

How are your passenger cars heated?
Baker heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	72,768
Miles run by freight trains during the year	48,196
Miles run by mixed trains	70,284
Total mileage of trains earning revenue	191,248

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Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	420		
Number of local passengers carried	97,541		
Total number of passengers carried	97,961		
Total passenger mileage, or passengers carried one mile		1,422,359	
Average distance traveled by each passenger		14.52	
Average amount received from each passenger			$0 38
Average rate of fare per mile for through passengers			01.6
Average rate of fare per mile for local passengers			02.7
Average rate of fare per mile for all passengers			02.6

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	14,096		
Number of tons of local freight carried	181,710		
Total tons of freight carried	195,806		
Total mileage of through freight		1,494,176	
Total mileage of local freight		9,134,292	
Total freight mileage, or tons carried one mile		10,628,468	
Average ton haul for through freight		106	
Average ton haul for local freight		50	
Average ton haul for all freight		54	
Average amount received for each ton haul			$0 55
Average rate per ton per mile, received for through freight			00.7
Average rate per ton per mile, received for local freight			01.
Average rate per ton per mile, received for all freight			01.

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Cotton	5,323
Grain	11,952
Flour	9,998
Provisions (beef, pork, lard, etc.)	571
Animals	2,551
Other agricultural products	7,415
Lumber and forest products	31,570
Coal	26,932
Plaster, lime and cement	77
Salt	70
Petroleum	102
Railroad iron, iron and steel rails	343
Pig and bloom iron	901
Other iron and castings	471
Stone, brick and sand	5,171
Manufactures,—articles shipped from point of production	5,798
Merchandise and other articles not enumerated above	30,412
Total forwarded	139,647

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Cotton	5,323	2.72
Grain	12,559	6.41
Flour	10,104	5.16
Provisions (beef, pork, lard, etc.)	638	.33
Animals	2,787	1.42
Other agricultural products	8,170	4.17
Lumber and forest products	38,630	19.73
Coal	37,098	18.94
Plaster, lime and cement	617	.32
Salt	385	.20
Petroleum	439	.22
Railroad iron, iron and steel rails	629	.32
Pig and bloom iron	1,019	.52
Other iron and castings	820	.42
Stone, brick and sand	6,715	3.43
Manufactures—articles shipped from point of production	10,453	5.34
Merchandise and other articles not enumerated above	59,425	30.35
Total tons carried	195,806	100.00

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company. Terms $2,500 per annum for a minimum weight of 3,000 lbs. daily carried entire length of road Excess weight at same rate per 100 lbs. Freights received at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
105.6 miles. Western Union Telegraph Company.

Fast Freight Lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

The information for this table cannot be given separate from the Chicago, Detroit & Canada Grand Trunk Junction R'y, and is therefore embraced in the report of that company.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

September 2, O. H. Price, citizen, Pontiac. Getting on train intoxicated; his own fault.

INJURED.

February 11, D. Donaldson, brakeman, Romeo. Coupling; accidental.
February 12, T. Masterman, brakeman, Lenox. Coupling; his own carelessness.
April 19, J. Wilson, brakeman, Hamburg. Frog; accidental.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					2	
Derailments						
Falling from trains						
Frogs					1	
Getting on and off trains			1			
Highway crossings						
Miscellaneous						
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total			1		3	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	3
Number of casualties purely accidental	2
Number resulting from lack of caution, carelessness, or misconduct	1
Persons killed or injured while intoxicated	1

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		3	3
Conductors			
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total		3	3

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

William J. Spicer, general manager, and Jas. H. Muir, accountant, of the Michigan Air Line Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

W. J. SPICER,
JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D., 1892.

[L. S.]

L. F. LANG,
Notary Public, Wayne Co., Michigan.

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ANNUAL REPORT

OF THE

TOLEDO, SAGINAW & MUSKEGON RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, LEWIS J. SEARGEANT, Montreal, Province of Quebec.
Vice President and General Manager, W. J. SPICER, Detroit, Mich.
Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Mechanical Superintendent, HERBERT ROBERTS, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, JOHN W. LOUD, Detroit, Mich.
Solicitor, E. W. MEDDAUGH, Detroit, Mich.

DIRECTORS.

LEWIS J. SEARGEANT, Montreal, Province of Quebec.
W. J. SPICER, Detroit, Mich.
E. W. MEDDAUGH, Detroit, Mich.
E. MIDDLETON, Greenville, Mich.
C. JESSE CHURCH, Greenville, Mich.
LYMAN E. MASON, Muskegon, Mich.
HENRY HOWARD, Port Huron, Mich.
GEORGE MASSON, Detroit, Mich.
L. C. STANLEY, Detroit, Mich.
F. E. RANKIN, Detroit, Mich.

Terms expire second Wednesday in April, 1892 (or when their successors are elected).
One vacancy by death not yet filled.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When articles of association filed—January 25, 1886.
Number of stockholders at date of last election 12
Number of stockholders in Michigan at same date 10
Amount of full paid stock held in Michigan at same date $1,000 00
Date of annual meeting of stockholders—Second Wednesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$115,225 13
Total expenses, including taxes	$95,110 11	
Net income		20,115 02
Interest on funded debt	$78,000 00	
Rentals of buildings, tracks, etc.	1,362 39	
		79,362 39
Balance for the year, deficit	$59,247 37	
Balance, loss from December 31, 1890	86,939 47	
Items not included in above, as follows:		
Advanced by Grand Trunk R'y Co., of Canada, and Chicago & Grand Trunk R'y Co. under traffic agreement		$41,763 61
Balance forward to next year		104,423 23
	$146,186 84	$146,186 84

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,600,000 00
Par value of shares		$100 00	
Number of shares issued	16,000		
Amount paid in on common		$1,600,000 00	
Total amount paid in as per books of the company			$1,600,000 00
Paid in per mile of road (miles 96)			$16,666 67

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st m't'g bonds, dated July 2, 1888	5 per cent	July 1, 1918	New York City	$1,560,000 00
Total funded debt				$1,560,000 00

UNFUNDED DEBT.

For current balances		$143,385 65
Total unfunded debt		$143,385 65

RECAPITULATION.

Total funded debt	$1,560,000 00
Total unfunded debt	143,385 65
Total debt liabilities	$1,703,385 65
Amount of debt liabilities per mile of road (96 miles)	$17,743 08
Total amount of stock and debt	$3,303,385 65
Stock and debt per mile of road (96 miles)	$34,409 75

GENERAL BALANCE SHEET.—Dr.

Construction account Equipment account		$3,166,470 00
Cash items:		
Cash	$3,579 93	
Due from agents	4,508 62	
		8,088 55
Other assets:		
Materials and supplies	$7,766 46	
Debit balances from companies and individuals	16,587 41	
		24,353 87
Profit and loss		104,423 23
Total		$3,303,335 65

GENERAL BALANCE SHEET.—Cr.

Capital stock	$1,600,000 00	
Funded debt	1,560,000 00	
		$3,160,000 00
Unfunded debt:		
Interest unpaid	$104,423 23	
Vouchers and accounts	38,912 42	
		143,385 65
Total		$3,303,385 65

COST OF ROAD AND EQUIPMENT.

Purchased by Present Company.

When purchased—August 1, 1888.	
Original cost to present company of road and equipment	$3,160,000 00
Amount expended since purchase account of construction	4,560 00
Amount expended since purchase account of equipment	1,910 00
Total cost to date of report	$3,166,470 00

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Average cost per mile of road (not including sidings) 96 miles	$32,984 06
Proportion of cost for Michigan	3,166,470 00

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$3,910 00
New buildings	650 00
Improvement of locomotives	1,470 00
Improvement of cars	440 00
Total charges	$6,470 00
Total charges to property account as above	$6,470 00
Net addition to property account	$6,470 00

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$27,993 64	
Through fares	4,290 94	
Total passenger fares	$32,284 58	
Express and baggage	929 45	
Mails	4,624 76	
Total		$37,838 79
Proportion for Michigan	$37,838 79	
Per train mile	50	
Per mile of road	394 15	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$60,986 38	
Through traffic	16,399 96	
Total traffic		$77,386 34
Proportion for Michigan	$77,386 34	
Per train mile	1 06	
Per mile of road	806 11	
Total transportation earnings		$115,225 13
Transportation earnings per mile of road	$1,200 26	
Transportation earnings per train mile	78	
Total earnings from operation of road		$115,225 13
Total earnings per mile of road	$1,200 26	
Total earnings per train mile	78	
Proportion of taxable earnings for Michigan		115,225 13
Total taxable earnings per mile of road in Michigan	1,200 26	
Total income from all sources		115,225 13
Proportion of income for Michigan		115,225 13

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$20,925 29
Renewals of ties	1,031 43
Repairs of bridges, including culverts and cattle guards	2,490 30
Repairs of fences, road crossings, and signs	1,950 99
Repairs of buildings	1,291 26
Total	$28,289 27

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$9,065 73
Repairs of passenger cars	1,606 25
Repairs of freight cars	3,521 60
Total	$14,193 58

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$11,942 40
Water supply	565 89
Oil and waste	881 80
Locomotive service	11,167 06
Passenger train service	3,317 82
Passenger train supplies	300 00
Freight train service	4,175 80
Freight train supplies	500 00
Mileage of freight cars	402 47
Telegraph expenses (maintenance and operating)	540 00
Damage and loss of freight and baggage	189 56
Damages to property and cattle	170 00
Personal injuries	9 00
Agents and station service	11,866 47
Station supplies	687 78
Total	$46,715 51

GENERAL EXPENSES.

Salaries of clerks in general offices	$281 25
Law expenses	3 75
Insurance	466 38
Stationery and printing	1,223 88
Outside agencies and advertising	618 30
Contingencies	946 58
Taxes	2,372 16
Total	$5,911 75

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	29.74	$28,289 27
Maintenance of motive power and cars	14.92	14,193 58
Conducting transportation	49.13	46,715 51
General expenses, including taxes	6.22	5,911 75
Total operating expenses and taxes	100.00	$95,110 11
Operating expenses and taxes per mile of road		$990 73
Operating expenses and taxes per train mile run, for trains earning revenue (miles 143,158)		64
Proportion of operating expenses and taxes for Michigan		95,110 11
Percentage of expenses to earnings	82.54	
Net earnings per mile of road		209 53
Net earnings per train mile		14

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Ashley, Michigan, to Muskegon, Michigan, August 1, 1888.

MAIN LINE.

	Miles.
In Michigan, from Ashley to Muskegon	96
Total length completed	96
Total length of road belonging to this company	96
Total length of road belonging to this company in Michigan	96
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	9.36
Aggregate length of tracks in Michigan belonging to this company, computed as single track	105.36

Gauge of track, 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	4	375
Wooden trestles	70	6,837
Total	74	7,212

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Detroit, Lansing & Northern R. R. at Sheridan and Greenville.
Grand Rapids & Indiana R. R. at Cedar Springs.
Chicago & West Michigan R'y at Sparta, Fruitport Junction and Muskegon.

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At what crossings are interlocking and derailing switches in operation?
Detroit, Lansing & Northern R. R. crossing at Sheridan and Greenville.
Grand Rapids & Indiana R. R. crossing at Cedar Springs.
Chicago & West Michigan R'y crossing at Sparta, Fruitport Junction and Muskegon.

What pattern or patterns have you adopted?
Wharton R. R. Switch Company's design and workmanship.

Number of crossings of highways at grade in this State	125
Number of crossings of highways over or under railroad (over 2, under 2)	4
Number of highway bridges 18 feet above track	2
Have safety guards been erected at over-head obstructions	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884	Yes.

How are they treated?
With plank blocking.

Stations.

Number of stations on whole line	25
Same in Michigan	25

Employés.

Number persons regularly employed on all roads operated by company, including officials	104
Same in Michigan	104

Classify your employés as per following list:

	Number.
Baggagemen	2
Brakemen	6
Conductors	4
Engineers	4
Firemen	4
Laborers	48
Shopmen	2
Yardmen	1
Others	33

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you	182.88
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
In Muskegon county	5.50
In Kent county	.25
In Gratiot county	1.75
In Montcalm county	1.61
Total miles required	9.11

Road Bed and Track.

Number of track sections in Michigan	10
Average length of sections (miles)	9.6
Average number of men in each section gang	4.5
Number of new ties put in whole line during the year	7,529
Number of new ties put in track in Michigan	7,529
Average number of new ties per mile of road	78

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	5	$25,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	3,000 00
Total	6	$28,000 00
Number of passenger cars— 8 wheel, including official cars	2	8,000 00
Number of express and baggage cars	4	10,000 00
Number of box freight cars	80	34,000 00
Number of platform cars	52	15,600 00
Number of conductors' way cars	2	1,200 00
Total	140	$88,800 00

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Number of locomotives equipped with power brakes	6
Number of passenger-train cars equipped with power brakes	6

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse Air Brakes; locomotives 6, cars 6.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
In abeyance—waiting result of experiments.

What pattern or patterns have you adopted for use?
McCree & Aikman's, but withdrawing them.

How are your passenger cars heated?
Baker hot water heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	76,201
Miles run by freight trains during the year	4,063
Miles run by mixed trains	67,874
Total mileage of trains earning revenue	148,138

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	1,547		
Number of local passengers carried	56,264		
Total number of passengers carried	57,811		
Total passenger mileage, or passengers carried one mile	1,104,818		
Average distance traveled by each passenger		19.1	
Average amount received from each passenger			$0 55.85
Average rate of fare per mile for through passengers			02.89
Average rate of fare per mile for local passengers			02.93
Average rate of fare per mile for all passengers			02.92

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	17,114		
Number of tons of local freight carried	80,695		
Total tons of freight carried	97,809		
Total mileage of through freight		1,631,631	
Total mileage of local freight		2,603,066	
Total freight mileage or tons carried one mile		4,234,697	
Average ton haul for through freight		96	
Average ton haul for local freight		32.3	
Average ton haul for all freight		43.3	
Average amount received for each ton haul			$0 79.12
Average rate per ton per mile received for through freight			01.01
Average rate per ton per mile received for local freight			02.34
Average rate per ton per mile received for all freight			01.83

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	12,996
Flour	5,319
Provisions (beef, pork, lard, etc.)	317
Animals	2,773
Other agricultural products	15,090
Lumber and forest products	41,498
Coal	2,155
Plaster, lime and cement	1,455
Salt	282
Petroleum	337
Railroad iron, iron and steel rails	58
Pig and bloom iron	366
Other iron and castings	978
Stone, brick and sand	443
Manufactures—articles shipped from point of production	3,581
Merchandise and other articles not enumerated above	10,161
Total forwarded	97,809

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	12,996	13.29
Flour	5,319	5.44
Provisions (beef, pork, lard, etc.)	317	.32
Animals	2,773	2.84
Other agricultural products	15,090	15.43
Lumber and forest products	41,498	42.43
Coal	2,155	2.20
Plaster, lime and cement	1,455	1.49
Salt	282	.29
Petroleum	337	.34
Railroad iron, iron and steel rails	58	.06
Pig and bloom iron	366	.37
Other iron and castings	978	1.00
Stone, brick and sand	443	.45
Manufactures—articles shipped from point of production	3,581	3.66
Merchandise and other articles not enumerated above	10,161	10.39
Total tons carried	97,809	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

National Express Co. (transferred from the American Express Co. May, 1891). Has exclusive right on passenger trains, carrying light freight, money, etc. Taking freight to and from depots at the following rates: On through merchandise, at first-class rates. On local merchandise, at 1½ first-class rates. On perishable goods, at 1 1-10 first-class rates.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

96 miles; owned by Western Union Telegraph Company.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transit Co.	St. Louis, Mo.	$17 73
Anglo American Provision Co.	Chicago, Ill.	56
Chicago Refrigerator Car Co.	Lafayette, Ind.	2 53
Hick's Stock Car Co.	Chicago, Ill.	1 69
Live Poultry Transportation Co.	Chicago, Ill.	29
Merchants' Dispatch Transportation Co.	New York City	78 30
National Dispatch Line	St. Albans, Vt.	209 78
Southern Iron Car Line	Atlanta, Ga.	27
Frost Proof Car Co.	Boston, Mass.	74

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

INJURED.

February 13, E. Quirke, brakeman, Muskegon. Getting on engine; his carelessness.
February 17, D. Robinson, brakeman, Ola. Coupling; his carelessness.
February 21, E. Brands, brakeman, Butternut. Brake slipping; accidental.
March 2, J. Baughman, brakeman, Cedar Springs. Coupling; his carelessness.
August 25, J. Boucher, brakeman, Muskegon. Coupling; his carelessness.
August 29, M. Summers, brakeman, Cedar Springs. Staking cars; accidental.
September 24, H. Friebbley, brakeman, Chittenden's Siding. Coupling; his carelessness.
October 14, C. Hungerford, brakeman, Cedar Springs. Coupling; his carelessness.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars					5	
Derailments						
Falling from trains						
Frogs						
Getting on and off trains					1	
Highway crossings						
Miscellaneous					2	
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total					8	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	8
Number of casualties purely accidental	2
Number resulting from lack of caution, carelessness, or misconduct	6

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		8	8
Conductors			
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total		8	8

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

W. J. Spicer, vice president and general manager, and James H. Muir, secretary and treasurer, of the Toledo, Saginaw & Muskegon Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, W. J. SPICER,
Vice President and General Manager.
JAS. H. MUIR.
Secretary and Treasurer.

[L. S. OF R. R.]

Subscribed and sworn to before me this 28th day of March, A. D., 1892.
[L. S.]

L. F. LANG,
Notary Public Wayne Co. Mich.

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ANNUAL REPORT

OF THE

PONTIAC, OXFORD & NORTHERN RAILROAD COMPANY,

For year the ending December 31, 1891.

[Filed March 30, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, GEORGE W. DEBEVOISE, New York City.
Vice President, HUGH PORTER, New York City.
Secretary, WILLIAM H. MURPHY, New York City.
Auditor, W. C. SANFORD. Pontiac, Mich.
Treasurer, HUGH PORTER, New York City.
Gen. Sup't, Pass. and Freight Ag't, JAMES HOUSTON, Pontiac, Mich.
Assistant Treasurer, FRANK H. CARROLL, Pontiac, Mich.
Attorney, A. C. BALDWIN, Pontiac, Mich.

DIRECTORS.

GEORGE W. DEBEVOISE, New York City.
CHARLES H. STONE, New York City.
HUGH PORTER, New York City.
WILLIAM H. MURPHY, New York City.
A. C. BALDWIN, Pontiac, Mich.
JAMES HOUSTON, Pontiac, Mich.
F. H. CARROLL, Pontiac, Mich.
Terms expire September 21, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—September 24, 1889.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	3
Amount of full paid stock held in Michigan at same date	$3,000

Date of annual meeting of stockholders—First Wednesday after the third Monday in September.
Fiscal year of company ends June 30.
General offices of the company are located at Pontiac, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total Income		$107,106 02
Total expenses including taxes	$82,136 16	
Net income		$24,969 86
Rentals of buildings, tracks, etc.		172 13
Balance applicable to dividends		$25,141 99
Dividends declared (3 per cent)	$30,000 00	
Balance for the year	$4,858 01	
Balance (profit and loss) last year		$14,321 21
Balance forward to next year	9,463 20	
	$14,321 21	$14,321 21

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares	$100 00		
Number of shares issued	10,000		
Amount paid in on common		$1,000,000 00	
Total amount paid in, as per books of the company			$1,000,000 00
Paid in per mile of road owned by company, 100 miles			$10,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For miscellaneous		$9,825 47
For current balances		928 99
Total unfunded debt		$10,754 46

RECAPITULATION.

Total unfunded debt	$10,754 46
Total debt liabilities	10,754 46
Amount of debt liabilities per mile of road (100 miles)	107 54
Total amount of stock and debt	1,010,754 46
Stock and debt per mile of road (100 miles)	10,107 54

GENERAL BALANCE SHEET.—Dr.

Construction account		$890,066 24
Equipment account		110,500 00
Cash items:		
Cash	$12,576 33	
Bills receiveable	50 00	
Due from agents	139 13	
		12,765 46
Other assets:		
Materials and supplies	$3,805 56	
Debit balances from companies and individuals	3,080 40	
		6,885 96
Total		$1,020,217 66

GENERAL BALANCE SHEET.—Cr.

Capital stock	$1,000,000 00
Unfunded debt:	
Vouchers and accounts	10,754 46
Profit and loss or income accounts	9,463 20
Total	$1,020,217 66

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased—September 24, 1889.	
Original cost to present company of road and equipment	$1,000,000 00
Total cost to date of report	1,000,000 00
Average cost per mile of road (not including sidings, 100 miles)	10,000 00
Proportion of cost for Michigan	1,000,000 00

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

New buildings	$323 08
New fences	637 22
Total charges	$960 30
Total charges to property account as above	$960 30
Net addition to property account	960 30

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$37,845 50	
Through fares	1,122 35	
Total passenger fares	$38,967 85	
Express and baggage	2,798 26	
Mails	5,780 12	
Total passenger department earnings		$47,546 23
Proportion for Michigan	$47,546 23	
Per train mile	52	
Per mile of road	475 46	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$56,519 18	
Through traffic	3,040 61	
Total freight department earnings		$59,559 79
Proportion for Michigan	$59,559 79	
Per train mile	1 17	
Per mile of road	595 60	
Total transportation earnings		$107,106 02
Transportation earnings per mile of road	$1,071 06	
Transportation earnings per train mile	0 74.66	
From other sources		172 13
Total earnings from operation of road		$107,278 15
Total earnings per mile of road	$1,072 78	
Total earnings per train mile	0 74.78	
Proportion of taxable earnings for Michigan		$107,278 15
Total taxable earnings per mile of road in Michigan	1,072 78	
Total income from all sources		107,278 15
Proportion of income for Michigan		$107,278 15

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$18,699 13
Renewals of ties	7,415 19
Repairs of bridges, including culverts and cattle guards	1,290 95
Repairs of fences, road crossings and signs	1,270 40
Repairs of buildings	803 67
Total	$29,479 34

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$6,375 27
Repairs of passenger cars	1,321 11
Repairs of freight cars	2,215 70
Total	$9,912 08

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$7,544 63
Water supply	626 75
Oil and waste	550 40
Locomotive service	6,240 08
Passenger train service	2,567 28
Passenger train supplies	254 55
Mileage of passenger cars	22 80
Freight train service	3,031 39
Freight train supplies	99 10
Mileage of freight cars	687 28
Telegraph expenses (maintenance and operating)	1,991 33
Damage and loss of freight and baggage	58 96
Damages to property and cattle	171 23
Agents and station service	5,531 98
Station supplies	457 82
Total	$29,835 57

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GENERAL EXPENSES.

Salaries of the general officers of the company	$6,000 00
Salaries of clerks in general offices	1,481 00
Law expenses	1,271 20
Stationery and printing	1,218 64
Outside agencies and advertising	157 50
Contingencies	635 27
Taxes	2,145 56
Total	$12,909 17

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	35.89	$29,479 24
Maintenance of motive power and cars	12.06	9,912 08
Conducting transportation	36.32	29,835 57
General expenses, including taxes	15.73	12,909 17
Total operating expenses and taxes	100.00	$82,136 16
Operating expenses and taxes per mile of road		$821 36
Operating expenses and taxes per train mile run, for trains earning revenue (143,458 miles)		57.25
Proportion of operating expenses and taxes for Michigan		82,136 16
Percentage of expenses to earnings	76.56	
Net earnings per mile of road		251 42
Net earnings per train mile		17.53

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Pontiac, Michigan, to Caseville, Michigan, October 8, 1883.

MAIN LINE.

	Miles.
In Michigan, from Pontiac to Caseville	100.20
Total length completed	100.20
Total length of road belonging to this company	100.20
Total length of road belonging to this company in Michigan	100.20
Aggregate length of sidings, spurs and other tracks not above enumerated	7.19
Aggregate length of tracks belonging to this company computed as single track	107.39

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	3	210
Wooden trestles	18	1,510
Total	21	1,720

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Michigan Central R. R. at Oxford.
Flint & Pere Marquette R. R. at Clifford.
Saginaw, Tuscola & Huron R. R. at Berne Junction.

What railroads cross your road either over or under your grade in this State, and where?
Over:
Chicago & Grand Trunk R'y at Imlay City.

Number of crossings of highways at grade in this State	104
Number of crossings of highways over or under railroad—over	1
Number of highway bridges 18 feet above track	1

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Space between rails filled with wood blocking.

Stations.

Number of stations on whole line	22
Same in Michigan	22

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Employés.

Number persons regularly employed on all roads operated by company, including officials	109
Same in Michigan	109

Classify your employes as per following list:

	Number.
Baggagemen	2
Brakemen	4
Conductors	3
Engineers	3
Firemen	3
Laborers	51
Shopmen	16
Others	27

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	193.7

Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:

Tuscola county	.6
Huron county	5.7
Total miles required	6.3

Road Bed and Track.

Number of track sections in Michigan	16
Average length of sections (miles)	6.26
Average number of men in each section gang	3
Number of new ties put in whole line during the year	39,362
Number of new ties put in track in Michigan	39,362
Average number of new ties per mile of road	393.62

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$16,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3	18,000 00
Total	5	$34,000 00
Number of passenger cars— 8 wheel, including official cars	7	$1,500 00
Number of express and baggage cars	1	2,500 00
Number of box freight cars	46	18,400 00
Number of stock cars	4	1,500 00
Number of platform cars	61	21,350 00
Number of conductors' way cars	1	450 00
Other cars (snow plow)	1	800 00
Total	121	$110,500 00

Number of locomotives equipped with power brakes	5
Number of passenger train cars equipped with power brakes	8

Number of freight cars equipped with power brakes:
None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse automatic air brake; 8 cars, 3 locomotives.
New York Brake Company, automatic air brake, 1 locomotive.
Eames' vacuum driver brake, 1 locomotive.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Hinson.

How are your passenger cars heated?
Hot water circulation--Mason heaters.

MILEAGE, TRAFFIC, ETC.

TRAIN MILEAGE.

Miles run by passenger trains during the year	63,818
Miles run by freight trains during the year	31,875
Miles run by mixed trains	47,765
Total mileage of trains earning revenue	143,458

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PASSENGER TRAFFIC.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	573		
Number of local passengers carried	77,552		
Total number of passengers carried	78,125		
Total passenger mileage, or passengers carried one mile	1,526,990		
Average distance traveled by each passenger		19.5	
Average amount received from each passenger			$0 49.89
Average rate of fare per mile for through passengers			01.97
Average rate of fare per mile for local passengers			02.58
Average rate of fare per mile for all passengers			02.55

FREIGHT TRAFFIC.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	2,137		
Number of tons of local freight carried	61,575		
Total tons of freight carried	63,712		
Total mileage of through freight		213,700	
Total mileage of local freight		2,109,058	
Total freight mileage or tons carried one mile		2,322,758	
Average ton haul for through freight		100.00	
Average ton haul for local freight		34.30	
Average ton haul for all freight		36.50	
Average amount received for each ton haul			$0 93.48
Average rate per ton per mile received for through freight			01.42
Average rate per ton per mile received for local freight			02.68
Average rate per ton per mile received for all freight			02.56

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	9,886
Flour	1,275
Animals	2,950
Other agricultural products	7,668
Lumber and forest products	26,810
Coal	3,833
Plaster, lime and cement	225
Salt	630
Petroleum	135
Stone, brick and sand	350
Manufactures—articles shipped from point of production	540
Merchandise and other articles not enumerated above	9,411
Total forwarded	63,712

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	9,886	15.52
Flour	1,275	2.00
Animals	2,950	4.63
Other agricultural products	7,668	12.04
Lumber and forest products	26,810	42.06
Coal	3,833	6.01
Plaster, lime and cement	225	.35
Salt	630	.99
Petroleum	135	.21
Stone, brick and sand	350	.55
Manufactures—articles shipped from point of production	540	.85
Merchandise and other articles not enumerated above	9,411	14.77
Total tons carried	63,712	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company; one and one-half and one and one tenth first class freight rates and half fare for messengers; general express business; take its freights at depots.

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Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
One hundred miles; owned jointly by this company and Western Union Telegraph Company.

STATE OF MICHIGAN, } ss.
COUNTY OF OAKLAND. }

James Houston, general superintendent, and W. C. Sanford, auditor, of the Pontiac, Oxford & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES HOUSTON,
W. C. SANFORD.

Subscribed and sworn to before me this 29th day of March, A. D., 1892.

[L. S.] FRANK H. CARROLL,
Notary Public, Oakland Co., Mich.

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ANNUAL REPORT

OF THE

MILWAUKEE, LAKE SHORE & WESTERN RAILWAY CO.,

For the year ending December 31, 1891.

[Filed March 31, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, MARVIN HUGHITT, Chicago, Ill.
Vice President, JOSEPH R. BUSK, New York.
Secretary, ALFRED L. CARY, Milwaukee, Wis.
Auditor, W. R. HANCOCK, Milwaukee, Wis.
Treasurer, M. L. SYKES, New York.
General Manager, H. F. WHITCOMB, Milwaukee, Wis.
General Superintendent, GEO. F. BIDWELL, Milwaukee, Wis.
Division Superintendents, W. H. VANDEGRIFT, Kaukauna, Wis.
C. H. HARTLEY, Ashland, Wis.
Chief Engineer, E. H. RUMMELE, Milwaukee, Wis.
Superintendent of Telegraph, H. C. REED, Milwaukee, Wis.
General Passenger Agent, C. L. RYDER, Milwaukee, Wis.
General Freight Agent, C. L. WELLINGTON, Milwaukee, Wis.
General Solicitor, ALFRED L. CARY, Milwaukee, Wis.

DIRECTORS.

MARVIN HUGHITT, Chicago, Ill.
SAMUEL S. SANDS, New York.
THEODORE M. DAVIS, Newport, R. I.
CHARLES RAY, Milwaukee, Wis.
DAVID P. KIMBALL, Boston, Mass.
Terms expire June, 1892.
JOSEPH R. BUSK, New York.
F. F. THOMPSON, New York.
H. McK. TWOMBLY, New York.
ALBERT KEEP, Chicago, Ill.
Terms expire June, 1893.
JOHN M. WHITMAN, Chicago, Ill.
CHAUNCEY M. DEPEW, New York.
J. B. REDFIELD, Chicago, Ill.
MARTIN L. SYKES, New York.
Terms expire June, 1894.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

* When chartered or articles of association filed.

Number of stockholders at date of last election	435
Number of stockholders in Michigan at same date	None.

Date of annual meeting of stockholders—First Friday after first Thursday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Milwaukee, Wis.

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* The articles of association of the Vieux Desert and Lake Superior Railroad Company were filed in the office of Secretary of State of State of Michigan September 28, 1881. This company was afterward consolidated with Milwaukee, Lake Shore & Western Railway Company, a corporation of the State of Wisconsin, under articles filed in the office of said Secretary of State, on the 4th day of May, 1883, the name of the consolidated company being Milwaukee, Lake Shore & Western Railway Company.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$3,538,854 08
Total expenses, including taxes	$2,217,646 72	
Net income		$1,321,207 36
Interest on funded debt	$748,746 44	
Interest on unfunded debt	2,086 09	
Rentals of buildings, tracks, etc.	37,503 59	
		788,336 12
Balance applicable to dividends		$532,871 24
Dividends declared (7%) preferred stock		350,000 00
Balance for the year		$182,871 24
Balance (profit and loss) last year		532,717 41
Items not included in above, as follows:		
Amount to redeem bonds	$160,000 00	
Balance forward to next year		$555,588 65

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$10,000,000 00
Par value of shares	$100 00		
Number of shares issued	76,500		
Amount paid in on common		$2,650,000 00	
Amount paid in on preferred		5,000,000 00	
Total amount paid in as per books of the company			$7,650,000 00
Paid in per mile of road owned by company (miles, 724.12)			$10,564 54

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Consolidated first mortgage	6%	May—Nov.	New York	$5,000,000 00
Michigan Div. first mortgage	6%	Jan.—July	" "	1,231,000 00
Ashland Div. first mortgage	6%	Mar.—Sept.	" "	1,000,000 00
Hurley & Ontonagon branches, first mortgage	6%	Apr.—Oct	" "	125,000 00
Convertible debentures of 1907	5%	Feb.—Aug.	" "	544,000 00
Extension and improvement sinking fund mortgage	5%	Feb.—Aug.	" "	4,104,000 00
Equipment of 1882	8%	Jan.—July	" "	30,000 00
Equipment of 1885	6%	Jan.—July	" "	400,000 00
Income bonds	6%	May—Nov.	" "	500,000 00
Marshfield Extension debenture notes	6%	June—Dec.	" "	300,000 00
Total funded debt				$13,234,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For miscellaneous		$150,000 00
For current balances	To be paid in cash	409,279 32
Total unfunded debt		$559,279 32

RECAPITULATION.

Total funded debt	$13,234,000 00
Total unfunded debt	559,279 32
Total debt liabilities	13,843,279 32
Amount of debt liabilities per mile of road (724.12 miles)	19,117 37
Total amount of stock and debt	21,493,279 32
Stock and debt per mile of road (724.12 miles)	29,681 91

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GENERAL BALANCE SHEET.—Dr.

Construction account		$21,621,899 04
Sundry stocks and bonds		222,000 00
Cash items:		
Cash	$478,800 62	
Bills receivable	243,340 00	
Due from agents	91,574 37	
		813,714 99
Other assets:		
Materials and supplies	$383,518 81	
Debit balances from companies and individuals	79,684 69	
		463,203 50
Total		$23,120,817 53

GENERAL BALANCE SHEET.—Cr.

Capital stock		$7,650,000 00
Funded debt		13,284,000 00
Bonds redeemed		795,000 00
Sinking fund:		
Equipment bonds of 1885 due Jan. 1, 1892		105,000 00
Unfunded debt:		
Interest unpaid	$42,390 00	
Dividends unpaid	175,000 00	
Notes payable	150,000 00	
Vouchers and accounts	191,889 32	
		559,279 32
Other liabilities:		
Accrued interest not yet due		171,949 56
Profit and loss or income accounts		555,588 65
Total		$23,120,817 53

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased,—December 11, 1875.	
Original cost to present company of road and equipment	$6,861,224 97
Amount expended since purchase, account of construction	11,780,717 70
Amount expended since purchase, account of equipment	3,479,956 37
Total cost to date of report	$21,621,899 04
Average cost per mile of road (not including sidings, 724.12 miles)	29,595 39
Proportion of cost for Michigan	3,513,564 70

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings (right of way)	$101,137 61	
Improvements on track	49,923 58	
New buildings and bridges	131,785 36	
New fences	11,902 92	
New locomotives	43,179 30	
New cars	156,347 25	
		$494,275 97
Construction of Marshfield extension	$467,314 11	
Ontonagon Branch extension	111,160 77	
Air brakes and steam heating for cars and locomotives	48,986 06	
		627,460 94
Total		$1,121,736 91
Total charges to property account as above		$1,121,736 91
Property sold and credited		10,161 94
Net addition to property account		$1,111,574 97
Discount on securities		65,246 15
Total net addition to property		$1,176,821 12

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$509,864 23	
Through fares	110,624 93	
Total passenger fares	$620,489 16	
Express and baggage	53,293 24	
Mails	62,783 61	
Total passenger department earnings		$736,566 01
Proportion for Michigan	$111,286 61	
Per train mile	83.9	
Per mile of road	1,035 83	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$1,550,595 22	
Through traffic	1,243,581 36	
Total traffic	$2,794,176 58	
Other sources	3,361 28	
Total freight department earnings		2,797,537 86
Proportion for Michigan	$422,653 98	
Per train mile	1 81	
Per mile of road	3,932 27	
Total transportation earnings		$3,534,103 87
Transportation earnings per mile of road		$4,967 61
Transportation earnings per train mile		$1 45.2
Total earnings from operation of road		$3,534,103 87
Total earnings per mile of road	4,967 61	
Total earnings per train mile	1 45.2	
Proportion of taxable earnings for Michigan (average number of miles operated in Michigan 107.47)	533,890 54	
Income other than from earnings		4,750 21
Total income from all sources		$3,538,854 08
Proportion of income for Michigan		533,890 54

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$270,113 92
Renewals of rails	18,722 48
Renewals of ties	50,006 11
Repairs of bridges, including culverts and cattle guards	40,717 53
Repairs of fences, road crossings, and signs	15,281 16
Repairs of buildings	37,613 05
Total	$432,456 25

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$160,285 09
Repairs of passenger cars	21,760 58
Repairs of freight cars	121,472 04
Total	$253,517 71

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$279,161 88
Water supply	14,397 60
Oil and waste	18,080 96
Locomotive service	250,585 44
Passenger train service	52,171 35
Passenger train supplies	4,525 67
Freight train service	196,897 07
Freight train supplies	3,252 38
Mileage of freight cars	1,221 75
Telegraph expenses (maintenance and operating)	45,089 57
Damage and loss of freight and baggage	5,994 47
Damages to property and cattle	9,009 62
Personal injuries	23,849 51
Agents and station service	139,585 45
Station supplies	11,939 05
Total	$1,165,211 77

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GENERAL EXPENSES.

Salaries of the general officers of the company	$47,400 00
Salaries of clerks in general offices	50,610 52
Law expenses	13,499 38
Insurance	12,226 41
Stationery and printing	17,640 12
Outside agencies and advertising	28,641 03
Contingencies	43,023 48
Taxes	153,478 05
Total	$366,460 99

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	19.50	$432,456 25
Maintenance of motive power and cars	11.48	253,517 71
Conducting transportation	52.55	1,165,211 77
General expenses, including taxes	16.52	366,460 99
Total operating expenses and taxes	100.00	$2,217,646 72

Operating expenses and taxes per mile of road		$3,117 29
Operating expenses and taxes per train mile run, for trains earning revenue (2,434,133 miles)		91.1
Proportion of operating expenses and taxes for Michigan		256,946 17
Percentage of expenses to earnings	62 75	
Net earnings per mile of road		1,850 52
Net earnings per train mile		54.1

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Lake Shore Junction to Ashland, 1885.
From Two Rivers Junction to Two Rivers, 1874.
From Hortonville to Oshkosh, 1880.
From Eland Junction to Wausau, 1880.
From Antigo Junction to Bryant, 1883.
From Monico to Rhinelander, 1882.
From Rhinelander to Hurley, 1889.
From Hurley to Pence, 1886.
From Watersmeet to end of track, 1887.
From Oconto to Clintonville, 1884.
From Pratt Junction to Harrison and Parrish, 1888.
From Wausau to Marshfield, 1891.
Extension of Ontonagon River Branch Dec. 31, 1891, but not operated in 1891.

MAIN LINE.

	Miles.
In Michigan, from State line to Montreal River	66.89
In Wisconsin, from Lake Shore Junction to State line	279.62
In Wisconsin, from Montreal River to Ashland	39.62
In Wisconsin, from Monico to Hurley	88.13
Total length completed	474 26

BRANCHES.

In Wisconsin, from Two Rivers Junction to Two Rivers	6.35	
In Wisconsin, from Hortonville to Oshkosh	23.10	
In Wisconsin, from Eland Junction to Marshfield	63.87	
In Wisconsin, from Antigo Junction to end of track	11.92	
In Wisconsin, from Pratt Junction to Harrison and Parrish	22.39	
In Wisconsin, from Hurley to end of track	16.91	
In Wisconsin, spurs and branches to mines, etc.	51.98	
In Michigan, from Watersmeet to end of track (O. R. Div.)	24.53	
In Michigan, spurs and branches to mines, etc.	28.82	
Total length of branches owned by company		249.86
Total length of branches owned by company in Michigan		53.34
Total length of road belonging to this company		724.12
Total length of road belonging to this company in Michigan		120.23
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated		28.68
Aggregate length of tracks belonging to this company, computed as single track (in Michigan)		148.91

Average number of miles operated in 1891: whole line 711.43, Michigan 107.47.
Gauge of track 4 feet 8½ inches.

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Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total miles.
Chicago & Northwestern R'y, Milwaukee to Lake Shore Junction	3.60
St. Paul Eastern Grand Trunk R'y:	
Clintonville to Oconto	56.00
Spurs	4.02
Total	63.62
Total miles operated by the company	787.74

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	12	626
Stone bridges	1	45
Wooden trestles	31	3,376
Total	44	4,047

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Chicago & Northwestern R'y at Watersmeet.

What railroads cross your road either over or under your grade in this State and where?
Over:
Duluth, South Shore & Atlantic R'y .8 mile west of Bessemer.
Wisconsin Central R. R. ⅓ mile east of Siemens.
Wisconsin Central R. R. at Ironwood.

At what crossings are interlocking and derailing switches in operation?
None.

Number of crossings of highways at grade in this State 17

Number of crossings of highways at grade in this State at which there are gates or flagmen .. 2

Number of crossings at which there are electric or automatic signals?
None.

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Blocked with wood or iron.

Stations.

Number of stations on whole line	138
Same in Michigan	14

Employés.

Number persons regularly employed on all roads operated by company, including officials	2,215
Same in Michigan	289

Classify your employés as per following list:

	Number.
Baggagemen	18
Brakemen	154
Conductors	81
Engineers	110
Firemen	135
Laborers	853
Shopmen	360
Yardmen	75
Others	429

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	33.3
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:	
Gogebic county	113.7
Ontonagon county	35.0
Total miles required	148.7

NOTE—Figures given represent miles of fencing and not of track.

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Road Bed and Track

Number of track sections in Michigan	14
Average lengths of sections (miles)	7
Average number of men in each section gang	8
Number of new ties put in whole line during the year	279,696
Number of new ties put in track in Michigan	59,797
Average number of new ties per mile of road	424

New rails put in track: Steel (tons, 2,849) miles, 29.

Bridges and Culverts.

New bridges built during the year—One.

Location.	Kind.	Material.	Month built.	Feet in length.
Ramsay, Black river	Arch	Stone	Jan.—Oct.	45

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		105	$630,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		7	21,000 00
Total		112	$651,000 00
Number of passenger cars—12 wheel, including official cars		6	$36,000 00
Number of passenger cars—8 wheel, including official cars		46	113,000 00
Number of express and baggage cars		17	34,000 00
Number of box freight cars		2,488	998,200 00
Number of stock cars		55	16,500 00
Number of platform cars		1,824	346,000 00
Refrigerator cars		20	12,000 00
Number of ore cars		950	285,000 00
Number of conductors' way cars		56	33,600 00
Other cars as follows:			
Charcoal	23		
Logging	29		
Tool	2		
Wrecking	4		
Pile driver	2		
Steam excavator	5		
Boarding	8		
Ditching	2		
Flanger	7		
Rotary snow plow	1		
		83	57,900 00
Total		5,040	$1,927,200 00

Number of locomotives equipped with power brakes	103
Number of passenger train cars equipped with power brakes	59
Number of freight cars equipped with power brakes	1,480

What patterns of power brakes have you in use, and number of locomotives and cars with each.

All. Westinghouse air brake.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1887?

Yes.

What pattern or patterns have you adopted for use?

Janney type.

How are your passenger cars heated?

By steam.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	887,791
Miles run by freight trains during the year	1,546,342
Total mileage of trains earning revenue	2,434,133

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Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	39,949		
Number of local passengers carried	671,358		
Total number of passengers carried	711,307		
Total passenger mileage, or passengers carried one mile	24,354,585		
Average distance traveled by each passenger		34.2	
Average amount received from each passenger			$0 88
Average rate of fare per mile for through passengers			02.648
Average rate of fare per mile for local passengers			02.556
Average rate of fare per mile for all passengers			02.572

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	1,249,892		
Number of tons of local freight carried	1,711,350		
Total tons of freight carried	2,961,242		
Total mileage of through freight	146,653,574		
Total mileage of local freight	99,891,199		
Total freight mileage, or tons carried one mile	246,544,773		
Average ton haul for through freight		117.3	
Average ton haul for local freight		58.3	
Average ton haul for all freight		83.2	
Average amount received for each ton haul			$0 94.3
Average rate per ton per mile, received for through freight			.848
Average rate per ton per mile, received for local freight			01.352
Average rate per ton per mile, received for all freight			01.133

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	12
Flour	27
Provisions (beef, pork, lard, etc.)	218
Animals	271
Other agricultural products	268
Lumber and forest products	89,950
Coal	40
Plaster, lime and cement	11
Petroleum	128
Railroad iron, iron and steel rails	22
Pig and bloom iron	10
Other iron and castings	21
Ores	1,280,227
Stone, brick and sand	118
Manufactures,—articles shipped from point of production	589
Merchandise and other articles not enumerated above	1,573
Total forwarded	1,373,790

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	35,116	1.19
Flour	45,475	1.54
Provisions (beef, pork, lard, etc)	17,749	.60
Animals	6,698	.23
Other agricultural products	42,004	1.42
Lumber and forest products	928,117	31.34
Coal	80,145	2.71
Plaster, lime and cement	50,391	1.73
Salt	2,589	.08
Petroleum	8,441	.28
Railroad iron, iron and steel rails	2,972	.10
Pig and bloom iron	7,958	.26
Other iron and castings	4,908	.16
Ores	1,468,227	49.57
Stone, brick and sand	25,496	.86
Manufactures,—articles shipped from point of production	113,276	3.82
Merchandise and other articles not enumerated above	121,690	4.11
Total tons carried	2,961,242	100.00

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The United States Express Company does a general express business on this road. It makes its own rates and pays this company a stipulated amount annually, and a percentage of its gross earnings over a specified amount, for facilities furnished it; freight is delivered into this company's cars at depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

675 miles; Western Union Telegraph Company.

Transportation Companies.

SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year; on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company's sleeping cars, New York; all charges in addition to regular fare are made and collected by the Wagner Palace Car Company; the cars run in Michigan only three times per week during the summer season, between state line and Gogebic, 26 miles; mileage 93.60.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

None running between local points in Michigan.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

October 4, Joe Shafer, section laborer, Siemens. Getting off train in motion; carelessness.
November 6, Andrew Johnson, ore miner, Ironwood. Run over by ore cars; carlessness.

INJURED.

March 7, John Smith, switchman, Ramsey. Leg caught between two car roofs; want of caution.
April 26, Martin Moore, tramp, between Bessemer and Ironwood. Riding on trucks under car.
June 30, John Cerenski, laborer, Siemens. Fell through car bottom in unloading coal; carelessness.
August 4, H. Martin, engineer, between Wellington and Gogebic. Collision; want of caution.
August 4, T. Tillman, brakeman, between Wellington and Gogebic. Collision; accident.
August 4, C. Hoffman, engineer, between Wellington and Gogebec. Collision; accident.
September 5, Wm. Gray, boy, Ironwood. Walking on track; carelessness.
September 14, John Keegan, switchman, Ironwood. Coupling cars; want of caution.
October 10, Wm. O'Brien, switchman, Wakefield. Coupling cars; carelessness.
November 5, John Flaherty, brakeman, Watersmeet. Coupling cars; want of caution.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers	Employés.	Others.	Passengers	Employés.	Others.
Collisions					8	
Coupling cars					3	
Derailments						
Falling from trains						
Frogs						
Getting on and off trains		1				
Highway crossings						
Miscellaneous			1		2	
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks						1
Total		1	1		8	2

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SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	2
Number of persons injured during the year	10
Number of casualties purely accidental	2
Number resulting from lack of caution, carelessness or misconduct	10
Trespassers and tramps killed or injured	2

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		2	2
Conductors			
Engineers		2	2
Firemen			
Laborers	1	1	2
Shopman			
Yardmen		3	3
Not classified above			
Total	1	8	9

STATE OF WISCONSIN, } ss.
COUNTY OF MILWAUKEE. }

H. F. Whitcomb, general manager, and W. R. Hancock, auditor, of the Milwaukee, Lake Shore & Western Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, H. F. WHITCOMB.
W. R. HANCOCK.

Subscribed and sworn to before me this 30th day of March, A. D. 1892.

[L. S.] J. O. THAYER,
Commissioner for Michigan in Wisconsin.

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ANNUAL REPORT

OF THE

DULUTH, SOUTH SHORE & ATLANTIC RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed April 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SAMUEL THOMAS, New York City.
Vice Presidents, CALVIN S. BRICE, New York City.
W. C. VAN HORNE, Montreal, Canada.
Secretary, L. M. SCHWAN, New York City.
Auditor, ROBT. TOOMBS, Marquette, Mich.
Treasurer, W. A. C. EWEN, New York City.
General Manager, W. F. FITCH, Marquette, Mich.
Superintendent, D. M. PHILBIN, Marquette, Mich.
Assistant Superintendent, A. M. SUTHERLAND, Marquette, Mich.
Chief Engineer, H. J. PAYNE, Marquette, Mich.
Consulting Engineer, C. H. V. CAVIS, Marquette, Mich.
Assistant Treasurer, E. W. ALLEN, Marquette, Mich.
General Passenger Agent, C. B. HIBBARD, Minneapolis, Minn.
General Freight Agent, WM. ORR, Marquette, Mich.
General Attorney, A. B. ELDREDGE, Marquette, Mich.

DIRECTORS.

SAMUEL THOMAS, New York City.
CALVIN S. BRICE, New York City.
F. N. FINNEY, Minneapolis, Minn.
LORD MOUNT STEPHEN, Montreal, Canada.
SIR DONALD SMITH, Montreal, Canada.
W. C. VAN HORNE, Montreal, Canada.
J. W. STERLING, New York City.
WALTER WATSON, New York City.
W. F. FITCH, Marquette, Mich.
W. A. C. EWEN, New York City.
THOS. W. PEARSALL, New York City.
Terms expire June 2, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 7, 1887.

Number of stockholders at date of last election	867
Number of stockholders in Michigan at same date	22
Amount of full paid stock held in Michigan at same date	$11,927

Date of annual meeting of stockholders—First Thursday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Marquette, Mich., and 80 Broadway, New York City.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$2,160,118 24
Total expenses, including taxes	$1,317,386 49	
Net income or deficit		842,731 75
Interest on funded debt	$516,982 00	
Interest on unfunded debt	253,692 62	
Rentals of buildings, tracks, etc.	59,731 75	
Balance applicable to dividends		$12,375 38
Balance for the year		12,375 38
Balance (profit and loss) last year	$59,038 40	
Balance forward to next year		46,663 02

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$22,000,000 00
Par value of shares		$100 00	
Number of shares issued -- Common	120,000		
Number of shares issued -- Preferred	100,000		
Amount paid in on common		$12,000,000 00	
Amount paid in on preferred		10,000,000 00	
Total amount paid in, as per books of the company			$22,000,000 00
Paid in per mile of road owned by company—miles, 540.23			$40,723 40

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
D., S. S. & A. first mortgage bonds, issued January 1, 1887	5%	Jan. 1, 1937	New York	$4,000,000 00
D., S. S. & A. first consol. gold bond issued August 1, 1890	4%	August 1, 1990	" "	11,169,800 00
M., H. & O. 8% mortgage bonds, issued May 25, 1872	8%	June 1, 1892	" "	1,354,500 00
M., H. & O. 6% mortgage bonds, issued March 1, 1878	6%	March 1, 1908	" "	576,200 00
M., H. & O. 6% mortgage bonds, issued May 1, 1883	6%	June 1, 1923	" "	1,500,000 00
M., H. & O. 6% mortgage bonds, issued April 1, 1885	6%	April 1, 1925	" "	1,400,000 00
Car trust of July 9, 1888, closing payment to be made November 7, 1895. Interest included in this amount. Monthly payments $8,005	6%	Monthly	" "	376,235 00
Total funded debt				$20,376,235 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction	To be funded	$5,160,084 09
M., H. & O. stock	To be paid in cash	2,536,793 34
For miscellaneous	To be paid in cash	59,494 97
For current balances		321,735 06
Total unfunded debt		$8,078,057 46

RECAPITULATION.

Total funded debt	$20,376,235 00
Total unfunded debt—(Offset by securities in treasury).	
Total funded debt liabilities	$20,376,235 00
Amount of funded debt liabilities per mile of road (540.23 miles)	$37,717 70
Total amount of stock and funded debt	42,376,235 00
Stock and funded debt per mile of road (540.23 miles)	78,441 10

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GENERAL BALANCE SHEET.—Dr.

Construction account		$28,268,918 86
Equipment account		1,636,826 10
Other investments:		
Marquette, Houghton & Ontonagon R. R.	$6,980,532 80	
Marquette & Western R. R.	1,400,000 00	
Negaunee & Palmer R'y	89,945 15	
Lake Michigan & Lake Superior R'y	10,262 68	
Mackinaw Transportation Co.	135,764 93	
Sault Ste. Marie Bridge Co.	52,634 11	
Lake Superior Terminal & Transfer R'y Co.	18,160 00	
Ropes Gold Mine	260 00	
		8,687,549 17
Securities owned by company:		
D., S. S. & A. consol. 4½ bonds		11,169,300 00
Cash items:		
Cash	$28,686 56	
Due from agents and conductors	54,382 04	
		83,068 60
Other assets:		
Materials and supplies	$145,440 76	
Debit balances from companies and individuals	66,063 74	
		211,504 50
Car trust equipment		376,235 00
Profit and loss		46,663 02
Total		$50,580,065 25

GENERAL BALANCE SHEET.—Cr.

Capital stock		$22,000,000 00
Funded debt	$20,000,000 00	
Car trust	376,235 00	
		20,376,235 00
Unfunded debt:		
Interest unpaid	$59,494 97	
Notes payable	7,696,827 43	
Vouchers and accounts	142,917 64	
Other liabilities:		
Coupon ticket account	43,327 08	
Joint freight account	73,175 69	
Mileage account	2,001 64	
Labor	60,313 01	
		8,078,057 46
M., H. & O. lease account		73,146 68
D., S. S. & A. lands		2,626 11
Total		$50,580,065 25

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	$29,955,744 96
Average cost per mile of road, not including sidings (386.41 miles)	77,523 21
Proportion of cost for Michigan	24,685,715 76

Purchased by present company.

When purchased—July 17, 1890.

The M., H. & O. and M. & W. Railroads are yet in process of acquirement; therefore this information cannot be stated.

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and sidings	$145,496 95
New buildings	10,587 53
New fences	5,478 43
Machinery and tools	1,941 48
New cars	70,087 69
Total	$233,587 08

BRANCHES.

Branches to mines	$22,994 41
Total charges	$256,581 49
Total charges to property account as above	$256,581 49
Property sold and credited	14,220 48
Net addition to property account	242,361 01

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$362,515 31	
Through fares	267,322 01	
Total passenger fares	$629,837 32	
Express and baggage	27,066 72	
Mails	29,252 54	
Other sources	2,004 00	
Total passenger department earnings		$688,160 58
Proportion for Michigan	$560,867 61	
Per train mile	93 22	
Per mile of road	1,176 24	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$924,850 14	
Through traffic	506,271 77	
Total traffic	$1,431,121 91	
Other sources, freight department	7,448 15	
Total freight department earnings		$1,438,570 06
Proportion for Michigan	$1,172,469 66	
Per train mile	1 68.17	
Per mile of road	2,458 88	
Total transportation earnings		$2,126,730 64
Transportation earnings per mile of road	3,635 12	
Transportation earnings per train mile	1,334 50	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From rentals of tracks or terminals	$5,465 77	
From other sources	16,191 09	
Total	$21,656 86	

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

Company.	Total Miscellaneous.	Proportion for Michigan.
Duluth, South Shore & Atlantic R'y Co.	$21,656 86	$17,650 86

Total earnings from operation of road	$2,148,387 50
Total earnings per mile of road	3,672 14
Total earnings per train mile	1 35
Proportion of taxable earnings for Michigan	1,750,988 13
Total taxable earnings per mile of road in Michigan	3,762 14
Income other than from earnings:	
Rentals from property paying local taxes	11,730 74
Total income from all sources	2,160,118 24
Proportion of income for Michigan	1,762,718 87

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$153,648 33
Renewals of rails	4,023 54
Renewals of ties	18,885 49
Repairs of bridges, including culverts and cattle guards	25,954 57
Repairs of fences, road crossings and signs	2,173 78
Repairs of buildings	19,345 41
Total	$223,961 12

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$58,502 04
Repairs of passenger cars	20,278 50
Repairs of freight cars	64,110 51
Total	$152,891 05

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$162,660 05
Water supply	10,482 48
Oil and waste	5,378 77
Locomotive service	145,680 97
Passenger train service	30,172 17
Passenger train supplies	5,225 61
Mileage of passenger cars	1,854 20
Freight train service	109,611 05
Freight train supplies	4,986 96
Mileage of freight cars	1,235 65
Telegraph expenses (maintenance and operating)	28,894 58
Damage and loss of freight and baggage	7,002 96
Damages to property and cattle	9,928 08
Personal injuries	10,454 01
Agents and station service	173,870 31
Station supplies	9,177 96
Total	$716,110 81

GENERAL EXPENSES.

Salaries of the general officers of the company	$45,108 35
Salaries of clerks in general offices	84,776 98
Law expenses	7,927 21
Insurance	7,978 17
Stationery and printing	15,812 58
Outside agencies and advertising	27,043 22
Contingencies	41,431 10
Taxes	44,825 90
Total	$224,403 51

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	17.00	$223,981 12
Maintenance of motive power and cars	11.61	152,891 05
Conducting transportation	54.36	716,110 81
General expenses, including taxes	17.03	224,403 51
Total operating expenses and taxes	100.00	$1,317,386 49
Operating expenses and taxes per mile of road		$2,251 75
Operating expenses and taxes per train mile run, for trains earning revenue (1,593,652 miles)		82.66
Proportion of operating expenses and taxes for Michigan		1,073,701 95
Percentage of expenses to earnings	61⅝	
Net earnings per mile of road		1,440 44
Net earnings per train mile	$0 53	

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From St. Ignace to Marquette, December 19, 1881.
From Marquette to Houghton, July, 1883.
From Humboldt to Republic, September, 1872.
From Marquette to Winthrop Junction, June, 1884.
From Sault Ste. Marie to Soo Junction, October 10, 1887.
From Nestoria to Duluth, Minn., September 16, 1888.

MAIN LINE.

	Miles.
In Michigan, from Sault Ste. Marie to Wisconsin State line	302.00
In Michigan, from St. Ignace to Soo Junction	42.97
In Michigan, from Nestoria to Houghton	48.10
In Michigan, from Marquette to Winthrop Junction	18.11
	411.18
In Wisconsin, from Michigan State line to Iron River Junction	64.24
In Wisconsin, from Atlantic Junction to West Superior	3.74
Total length completed	479 16

BRANCHES.

Palmer, from Negaunee to Volunteer Mine	7.01
Bessemer, from Bessemer Junction to Bessemer	8.70
Republic, from Humboldt to Republic	8.70
Branches to mines	41.66
Total length of branches owned by company	61.07

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Total length of branches owned by company in Michigan	61.07
Total length of road belonging to this company	540.23
Total length of road belonging to this company in Michigan	472.25
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	100.28
Aggregate length of tracks in Michigan belonging to this company, computed as single track	572.53

Gauge of track, 4 feet, 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total miles.	In Michigan.
Chicago & Northwestern	2.75	
Milwaukee & Northern	.83	4.58
Northern Pacific	38.47	
Lake Superior Terminal & Transfer R'y	.72	
St Louis River Bridge	1.05	
Total	44.82	4.58
Total miles operated by the company	585.05	476.83

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden truss bridges	27	2,278
Iron bridges	7	480
Wooden trestles	240	39,698
Total	274	42,456

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and in what locality?

Minneapolis, St. Paul & S. S. Marie R'y at Trout Lake	1
Newberry Narrow Gauge R. R. at Newberry	1
Manistique R'y, west of Seney	1
Chicago & Northwestern Railway at Palmer Branch	2
" " " South Jackson	1
" " " Lucy Mine	1
" " " Negaunee Station	1
" " " West Negaunee, main line	1
" " " Barnum Mine	1
" " " St. Lawrence Mine	1
" " " Lake Angeline Mine	1
" " " Winthrop Branch	2
" " " Boston Branch	1
" " " Dishno Branch	1
" " " Republic Branch	1
" " " Michigamme main line	1
" " " " mill tracks	2
Milwaukee & Northern R. R. at Champion	1
" " " West Republic	1
" " " Republic	1
" " " Republic Mine	1

What railroads cross your road either over or under your grade in this State and where?

Over:
Chicago & N. W. R'y one mile east of Champion Station.
Under:
Chicago & N. W. R'y at Negaunee. (Two crossings.)

At what crossings are interlocking and derailing switches in operation?

Chicago & Northwestern R'y, Milwaukee & Northern R. R. } At Republic	1
Manistique R'y at Seney	1
Chicago & Northwestern R'y at Michigamme	1

What pattern or patterns have you adopted?
At Republic and Michigamme, Union Switch & Signal Co.
At Seney, Gravitt Interlocking Switch & Signal Co.

Number of crossings of highways at grade in this State	155
Number of crossings of highways at grade in this State at which there are gates or flagmen	21
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad (over 2, under 10)	12
Number of highway bridges 18 feet above track	2
Number of highway bridges less than 18 feet above track	None.
Have safety guards been erected at overhead obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated? Filled in with plank.

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Stations.

Number of stations on whole line	51
Same in Michigan	43

Employés

Number persons regularly employed on all roads operated by company, including officials	1,647
Same in Michigan	1,584

Classify your employés as per following list:

	Number.
Baggagemen	12
Brakemen	106
Conductors	46
Engineers	71
Firemen	72
Laborers	560
Shopmen	349
Yardmen	84
Others	347

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	181

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:

Mackinaw	48
Chippewa	121
Luce	53
Schoolcraft	46
Alger	68
Marquette	103
Baraga	118
Houghton	59
Ontonagon	61
Gogebic	43
Total miles required	730

Road Bed and Track.

Number of track sections in Michigan	90
Average length of sections (miles)	5
Average number of men in each section gang	3
Number of new ties put in whole line during the year	123,289
Number of new ties put in track in Michigan	120,289
Average number of new ties per mile of road	228

New rails put in track:
Steel (tons 547 1391-2240) miles 5.64.

Bridges and Culverts.

Timber culverts replaced during the year: With timber, number	8

New bridges built during the year:
None.

ROLLING STOCK.

			Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender			96	$768,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender			9	45,000 00
Total			105	$813,000 00
Number of passenger cars—12 wheel, including official cars			1	$16,000 00
Number of passenger cars—8 wheel, including official cars			39	195,000 00
Number of express and baggage cars			13	32,500 00
Number of box freight cars			832	329,200 00
Number of platform cars			715	214,500 00
Number of ore cars			3,633	594,100 00
Number of conductors' way cars			42	37,800 00
Other cars as follows:				
Coal	8	$400 00		
Refrigerator	4	1,000 00		
Derrick	3	500 00		
Other road cars	32	800 00		
			47	18,300 00
Total			5,302	$2,250,400 00

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Number of locomotives equipped with power brakes	76
Number of passenger train cars equipped with power brakes	53
Number of freight cars equipped with power brakes	35

What patterns of power brakes have you in use, and number of locomotives and cars with each?

Westinghouse,—locomotives, 29; passenger cars, 53; freight cars, 35	117
American Steam Brake,—locomotives	47

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Safford and Blocker.

How are your passenger cars heated?
Mason and Baker Heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	738,247
Miles run by freight trains during the year	855,405
Total mileage of trains earning revenue	1,593,652

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	59,871		
Number of local passengers carried	373,117		
Total number of passengers carried	432,988		
Total passenger mileage, or passengers carried one mile		20,732,628	
Average distance traveled by each passenger		47.88	
Average amount received from each passenger			$1 45.5
Average rate of fare per mile for through passengers			02.783
Average rate of fare per mile for local passengers			03.257
Average rate of fare per mile for all passengers			03.033

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	382,016		
Number of tons of local freight carried	1,737,815		
Total tons of freight carried	2,119,831		
Total mileage of through freight		43,410,096	
Total mileage of local freight		50,251,060	
Total freight mileage, or tons carried one mile		93,661,156	
Average ton haul for through freight		113.63	
Average ton haul for local freight		28.91	
Average ton haul for all freight		44.18	
Average amount received for each ton haul			$0 67.511
Average rate per ton per mile received for through freight			01.162
Average rate per ton per mile received for local freight			01.840
Average rate per ton per mile received for all freight			01.528

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	11,664
Flour	10,762
Provisions (beef, pork, lard, etc.)	12,396
Animals	2,442
Other agricultural products	15,800
Lumber and forest products	479,948
Coal	96,057
Plaster, lime and cement	4,928
Salt	325
Petroleum	2,928
Railroad iron, iron and steel rails	4,403
Pig and bloom iron	31,107
Other iron and castings	15,621
Ores	1,241,480
Stone, brick and sand	40,411
Merchandise and other articles not enumerated above	74,828
Total	2,045,100

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	27,326	1.29
Flour	28,518	1.35
Provisions (beef, pork, lard, etc.)	12,637	.60
Animals	2,968	.14
Other agricultural products	32,954	1.55
Lumber and forest products	494,632	23.33
Coal	96,910	4.57
Plaster, lime and cement	5,089	.24
Salt	325	.01
Petroleum	3,940	.14
Railroad iron, iron and steel rails	4,416	.21
Pig and bloom iron	31,169	1.47
Other iron and castings	16,786	.79
Ores	1,241,480	58.57
Stone, brick and sand	41,278	1.94
Merchandise and other articles not enumerated above	80,458	3.80
Total tons carried	2,119,831	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. Does a general business. For a tonnage equal to 5,844 lbs. carried 410 miles daily the remuneration is $1,875 per month. Tonnage carried less than 410 miles is reduced to tonnage carried 410 miles. Excess is paid at proportionate rate. Contract dated December 15, 1889. Freight is delivered at depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

268.58 miles of line owned by D., S. S. & A. R'y.
216.13 " " " " W. U. Tel. Co.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report:

Wagner Palace Car Co., New York city; $6,401 42.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

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Name of company.	General office.	Amount paid.
Armour Refrigerator Line	Chicago, Ill.	$335 66
Arms Palace Horse Car Co.	Chicago, Ill.	89 83
American Refrigerator Transportation Co.	St. Louis, Mo.	5 09
Armour Packing Co.	Kansas City, Mo.	4 56
Arnold Refrigerator Car Co.	Chicago, Ill.	2 18
American Tank Line	Cleveland, O.	89 65
Anglo-American Refrigerator Car Co.	Chicago, Ill.	9 86
Blue Line	Rochester, N. Y.	255 45
Barrett & Barrett	Chicago, Ill.	40
Canada Southern Line	Rochester, N. Y.	72 68
Chicago Refrigerator Car Co.	Lafayette, Ind.	150 89
Canadian Pacific Dispatch	Boston, Mass.	325 33
Canada Cattle Car Co.	New York City, N. Y.	5 60
Cold Blast Transportation Co.	Kansas City, Mo.	2 13
Erie Dispatch	New York City, N. Y.	88
Empire Line	Philadelphia, Pa.	8 75
Excelsior Oil Co.	Cleveland, O.	18 45
Great Eastern Line	Montreal, Quebec	1 92
Hammond Refrigerator Line	Chicago, Ill.	154 18
Iron Car Express Coal Line	Atlanta, Ga.	12 76
International Package Co.	Chicago, Ill.	18
Keystone Palace Horse Car Co.	Chicago, Ill.	1 05
Merchants' Dispatch Transportation Co.	New York City, N. Y.	140 26
Morris & Co. Refrigerator Line	Chicago, Ill.	127 42
Midland Line	Buffalo, N. Y.	4 27
Menasha Woodenware Co.	Menasha, Wis.	1 68
National Dispatch Co.	St. Albans, Vt.	40 67
Paragon Refining Co.	Toledo, Ohio	19 36
Red Line Transit Co.	Buffalo, N. Y.	83 78
Swift's Refrigerator Transportation Co.	Chicago, Ill.	189 86
Street's Stable Car Line	Chicago, Ill.	35 46
Southern Iron Car Line	Atlanta, Ga.	2 64
Silberhorn Co.	Sioux City, Iowa	5 52
Sun Oil Line Co.	Toledo, Ohio	94 95
Tropical Transportation Co.	Boston, Mass.	66 08
Union Tank Line	New York City, N. Y.	143 48
Union Line Transit Co.	Pittsburg, Pa.	180 86
Union Refrigerator Transportation Co.	St. Louis, Mo.	209 11
White Line	Buffalo, N. Y.	3 68
Wells, T. E. & Co.	Chicago, Ill.	19 97

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 8, C. Carlson, citizen, Ishpeming. Intoxicated; fell in front of train; leg cut off; died from effects.

March 7, Geo. Hagadorn, woodsman, Boston Junction. Lying on track asleep; leg broken and internal injuries; died from effects.

March 31, D. Connors, switchman, Ishpeming. Coupling; timber projected; squeezed to death.

June 3, J. Slendurg, citizen, Ishpeming. Stealing ride and in jumping off fell under train; leg cut off; died from effects.

September —, A. Bergeman, bridge watchman, Kitchi. Supposed to have fallen asleep on track; train crew knew nothing of accident; no evidence on locomotive or coaches.

September 30, A. Holmes, flagman, Marquette. Run down by a switching train while flagging crossing; lack of caution.

November 13, J. Pointer, laborer, Ishpeming. Run over by switch engine while building city sewer under track; lack of caution.

December 26, John Harlocker, brakeman, Humboldt. Killed in head-end collision.

December 26, E. Van Oppen, fireman, Humboldt. Killed in head-end collision.

INJURED.

January 8, J. Richie, brakeman, L'Anse. Knocked off car; carelessness.

February 13, J. Marlanck, Trout Creek. Trespassing; proper signals given; leg broken.

February 2, A. Passier, brakeman, Marquette. Stepping off caboose.

February 13, W. Hayes, coal heaver, Soo Junction. Knocked off derrick platform by windlass; strained ankle.

February 28, R. Rylinke, miner, Humboldt. Struck by train; walking on track intoxicated; bruised.

March 2, W. Beard, miner, Republic. Boarding train; intoxicated; bruised by fall.

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March 14, L. Raiche, brakeman, Marquette. Riding on side of car; struck by car on siding.
March 14, A. Harris, brakeman, Negaunee. Coupling; hips squeezed.
March 16, J. A. Charlton, baggageman, Marquette. Coupling; hand crushed.
April 14, P. La Plant, conductor, Eagle Mills. Jumping from train; sprained ankle.
April 27, M. Morrison, pauper, Marquette. Trespassing; struck by train.
May 9, T. Corbitt, brakeman, Marquette. Fell from train; sprained ankle.
June 11, A. Boukosky, brakeman, L'Anse. } Train ran away on hill; derailed; brakeman bruised; engi-
June 11, C. Harrington, engineer, L'Anse. } neer's arm crushed.
June 23, Fred Fuller, lumberman, Ewen. Jumped from train in dark over bridge; stealing ride; wrist sprained, spine injured.
June 8, N. Johnson, drayman, Marquette. Train backed into dray; shoulder and leg bruised.
July 2, Wm. Campbell, brakeman, Bagdad. Fell from train; leg cut off.
July 16, A. Snyder, switchman, Ishpeming. Coupling.
July 14, G. Boyer, brakeman, Ishpeming. Coupling.
July 24, Dan Gittins, brakeman, Nestoria. Coupling.
July 28, S. Quantz, fireman, Grand View. Coupling.
August 1, Gill Snell, brakeman, Marquette. Coupling.
August 12, Wm. Roberts, switchman, Marquette. Coupling.
August 10, S. McKinnon, woodsman, Sidnaw. Trespassing; foot pinched between cars.
August 20, J. Zinkie, brakeman, Humboldt. Coupling.
September 1, D. Duboy, brakeman, Marquette. Coupling.
September 6, N. English, brakeman, Shingleton. Coupling.
September 23, H. DeLee, laborer, Marquette. Fell from ore car while dumping.
September 28, W. J. Horan, brakeman Sidnaw. Coupling.
September 15, W. B. Brown, operator, Buffalo Mine. Coupling.
September 16, A. Fluette, switchman, Marquette. Coupling.
September 30, A. Bussiere, brakeman, Marquette. Coupling.
October 2, W. Olds, brakeman, Chassell. Coupling.
October 10, G. LaCorse, switchman, Marquette. Coupling.
October 27, W. T. Ward, yardmaster, Marquette. Jumping from train; slight injuries.
October 28, E. Sauligney, brakeman, Seney. Coupling.
November 6, R. Bice, switchman, Ishpeming. Coupling.
November 11, A. Currie, brakeman, Bessemer Junction. Jumping from train.
November 23, M. Livernois, brakeman, Nestoria. Coupling.
November 21, R. Conklin, brakeman, Ishpeming. Coupling.
December 15, P. Ladwidge, brakemen, Ewen. Coupling.
December 31, F. Langrin, brakeman, Houghton. Coupling.
December 24, A. McKechine, car cleaner, Sault Ste. Marie. Coupling.
December 26, W. D. Reaney, engineer, Humboldt. Collision. Slight injuries.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		2			1	
Coupling cars		1			24	
Derailments					2	
Falling from trains					5	
Frogs						
Getting on and off trains			1		4	2
Highway crossings		1	1			
Miscellaneous		1			1	1
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks			2			3
Total		5	4		37	7

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	9
Number of persons injured during the year	44
Number of casualties purely accidental	7
Number resulting from lack of caution, carelessness, or misconduct	37
Persons killed or injured while intoxicated	3
Trespassers and tramps killed or injured	6

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen		1	1
Brakemen	1	22	23
Conductors		1	1
Engineers		2	2
Firemen	1	1	2
Laborers		2	2
Shopmen			
Yardmen	1	6	7
Not classified	2	2	4
Total	5	37	42

STATE OF NEW YORK, } ss.
COUNTY OF NEW YORK. }

Samuel Thomas, president, and William A. C. Ewen, treasurer, of the Duluth, South Shore & Atlantic Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

SAMUEL THOMAS, *President.*
W. A. C. EWEN, *Treasurer.*

Subscribed and sworn to before me this 30th day of March, A. D., 1892. Witness my hand and official seal.

[L. S.]

WILLIAM H. CLARKSON,
Commissioner for the State of Michigan in New York.

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ANNUAL REPORT

OF THE

DETROIT, BAY CITY & ALPENA RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. A. ALGER, Detroit.
Vice President, M. S. SMITH, Detroit.
Secretary, T. H. NEWBERRY, Detroit.
Auditor, J. C. McCAUL, Detroit.
Treasurer, M. S. SMITH, Detroit.
General Manager, R. A. ALGER, Detroit.
General Superintendent, MILO EASTMAN, East Tawas.
Chief Engineer, W. P. TAFT, East Tawas.
General Freight Agent, J. C. McCAUL, Detroit.
Attorney, A. M. HENRY, Detroit.

DIRECTORS.

R. A. ALGER, Detroit.
M. S. SMITH, Detroit.
JAMES McMILLAN, Detroit.
HUGH McMILLAN, Detroit.
T. H. NEWBERRY, Detroit.
J. C. McCAUL, Detroit.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—February 18, 1880. Amended articles April 2, 1883.

Number of stockholders at date of last electon	11
Number of stockholders in Michigan at same date	9
Amount of full paid stock held in Michigan at same date (15,424 shares)	$1,542,400

Date of annual meeting of stockholders—Third Tuesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$417,674 26
Total expenses, including taxes	$284,855 09	
Net income		$132,819 17
Deficit	$17,180 83	
Dividends declared (2½%), February, 1891	41,750 00	
Balance for the year	$58,930.83	
Balance (profit and loss) last year		$143,081 49
Balance forward to next year		$84,150 66

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$2,000,000 00
Par value of shares	$100 00	
Number of shares issued	16,700	
Amount paid in on common	$1,670,000 00	
Total amount paid in, as per books of the company		$1,670,000 00
Paid in per mile of road owned by company (miles, 209.32)		$7,978 22

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, January 1, 1883	6 %	Jan. 1, 1913	New York	$2,500,000 00
Total funded debt				$2,500,000 00

UNFUNDED DEBT.

For current balances	$89,883 46
Total unfunded debt	$89,883 46

RECAPITULATION.

Total funded debt	$2,500,000 00
Total unfunded debt	89,883 46
Total debt liabilities	$2,589,883 46
Amount of debt liabilities per mile of road (209.32 miles)	$12,372 84
Total amount of stock and debt	4,259,883 46
Stock and debt per mile of road (209.32 miles)	20,351 06

GENERAL BALANCE SHEET.—Dr.

Construction account	$3,875,431 82	
Equipment account	426,184 65	
		$4,301,616 47
Cash items:		
Cash	$1,758 22	
Due from agents	3,751 37	
		5,509 59
Other assets:		
Materials and supplies	$26,343 66	
Debit balances from companies and individuals	10,564 40	
		36,908 06
Total		$4,344,034 12

GENERAL BALANCE SHEET.—Cr.

Capital stock	$1,670,000 00	
Funded debt	2,500,000 00	
		$4,170,000 00
Unfunded debt:		
Notes payable	$50,263 14	
Vouchers and accounts	39,620 32	
Profit and loss or income accounts	84,150 66	
		174,034 12
Total		$4,344,034 12

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$4,301,616 47
Average cost per mile of road (not included in sidings, 209.32 miles)	20,550 43
Proportion of cost for Michigan	4,301,616 47

Purchased by present company.

When purchased—July 11, 1882.	
Original cost to present company of road and equipment	$107,664 42
Amount expended since purchase, account of construction	3,767,767 40
Amount expended since purchase, account of equipment	426,184 65
Total cost to date of report	$4,301,616 47
Average cost per mile of road (not including sidings, 209.32 miles)	$20,550 43

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CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$13,268 60
New buildings	30,457 04
New fences	2,255 88
Machinery and tools	10,620 02
Total	$56,601 54
Total charges to property account as above	$56,601 54
Property sold and credited	292 78
Net addition to property account	$56,308 76

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$81,913 79	
Express and baggage	1,911 14	
Mails	11,168 16	
Other sources	10,542 69	
Total passenger department earnings		$105,535 78
Proportion for Michigan	$105,535 78	
Per train mile	1 67	
Per mile of road	504 18	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$312,138 48	
Total freight department earnings		$312,138 48
Proportion for Michigan	$312,138 48	
Per train mile	65	
Per mile of road	1,491 20	
Total transportation earnings		$417,674 26
Transportation earnings per mile of road		1,995 38
Transportation earnings per train mile		77
Total earnings from operation of road		417,674 26
Total earnings per mile of road		1,995 38
Total earnings per train mile		77
Proportion of taxable earnings for Michigan		417,674 26
Total income from all sources		417,674 26
Proportion of income for Michigan		417,674 26

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$47,059 78
Renewals of rails, Renewals of ties	4,193 25
Repairs of bridges, including culverts and cattle guards	1,522 61
Repairs of fences, road crossings and signs	74 42
Repairs of buildings	1,737 25
Total	$54,587 31

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$3,336 68
Repairs of passenger cars	2,998 80
Repairs of freight cars	12,726 78
Total	$19,061 76

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$47,137 50
Water supply	3,527 29
Oil and waste	2,697 86
Locomotive service	59,512 56
Train service	34,625 66
Train supplies	969 46
Mileage of passenger cars	1,612 80

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Mileage of freight cars	$3,170 09
Telegraph expenses (maintenance and operating)	2,232 90
Damage and loss of freight and baggage Damages to property and cattle	2,133 84
Personal injuries	153 00
Agents and station service	17,058 98
Station supplies	1,072 23
Unloading logs	90 36
Total	$175,994 53

GENERAL EXPENSES.

Salaries of the general officers of the company	$10,000 00
Salaries of clerks in general offices	6,631 47
Law expenses	428 70
Insurance	1,111 32
Stationery and printing	1,843 00
Contingencies	4,626 54
Taxes	10,570 46
Total	$35,211 49

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	19.16	$54,587 31
Maintenance of motive power and cars	6.69	19,061 76
Conducting transportation	61.78	175,994 53
General expenses, including taxes	12.37	35,211 49
Total operating expenses and taxes	100.00	$284,855 09

Operating expenses and taxes per mile of road (209.32 miles)	$1,360 56
Operating expenses and taxes per train mile run for trains earning revenue (540,760 miles)	53
Proportion of operating expenses and taxes for Michigan	284,855 09
Percentage of expenses to earnings	68.2
Net earnings per mile of road	634 53
Net earnings per train mile	24

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Alger, Michigan, to Alpena, Michigan, Sept. 20, 1886.

MAIN LINE.

	Miles
In Michigan, from Alger to Alpena	105
Total length completed	105

BRANCHES.

Loon Lake, from Emery Junction to Thompson	20
Mud Lake, from Mud Lake Junction to Mud Lake	13.75
Other branches	70.57
Total length of branches owned by company	104.32
Total length of branches owned by company in Michigan	104.32
Total length of road belonging to this company	209.32
Total length of road belonging to this company in Michigan	209.32
Aggregate length of sidings, spurs, and other tracks not above enumerated	23.66
Aggregate length of tracks belonging to this company, computed as single track	232.98

Gauge of track, 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

None.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	14	1,409
Iron bridges	2	436
Combination bridges	2	1,437
Wooden trestles	6	1,106
Total	24	4,388

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Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Au Sable & Northwestern R. R. at Au Sable.

What railroads cross your road either over or under your grade in this State, and where?
None.

Number of crossings of highways at grade in this State	93

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Wooden blocks.

Stations.

Number of stations on whole line	30
Same in Michigan	30

Employés.

Number persons regularly employed on all roads operated by company, including officials.	325
Same in Michigan	325

Classify your employés as per following list:	Number.
Baggagemen	2
Brakemen	50
Conductors	25
Engineers	25
Firemen	25
Laborers	153
Shopmen	15
Yardmen	1
Others	29

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	35

Road Bed and Track.

Number of track sections in Michigan	26
Average length of sections (miles)	8
Average number of men in each section gang	3
Number of new ties put in whole line during the year	27,955

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	678

Timber culverts replaced during the year:
None.

New bridges built during the year:
One.

Location.	Kind.	Material.	Month built.	Feet in length.
One mile south of Black River	Pile bridge	Wood	April	15

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	19	
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	
Total	20	$144,750 00
Number of passenger cars—5 wheel, including official cars	5	18,000 00
Number of express and baggage cars	2	5,000 00
Number of box freight cars	37	15,850 00
Number of platform cars	309	98,907 22
Number of logging cars	300	84,800 00

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	Number.	Present estimated value.
Number of conductors' way cars	5	$1,250 00
Other cars as follows: 1 derrick	1	1,800 00
Total	659	$320,357 22
Number of locomotives equipped with power brakes		20
Number of passenger train cars equipped with power brakes		7

What patterns of power brakes have you in use and number of locomotives and cars with each:
Westinghouse and American.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

What pattern or patterns have you adopted for use?
Not decided upon.

How are your passenger cars heated?
Smith-Owen hot water heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	63,040
Miles run by freight trains during the year	372,860
Miles run by mixed trains	104,860
Total mileage of trains earning revenue	540,760

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	100,174		
Total number of passengers carried	100,174		
Total passenger mileage or passengers carried one mile		3,315,690	
Average distance traveled by each passenger		33.099	
Average amount received from each passenger			$0 32
Average rate of fare per mile for all passengers			02.47

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	739,833		
Total tons of freight carried	739,833		
Total freight mileage or tons carried one mile		24,075,621	
Average ton haul for all freight		32.54	
Average amount received for each ton haul			$0 42
Average rate per ton per mile received for all freight			01.3

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	3,390
Flour	1,659
Provisions (beef, pork, lard, etc.)	1,288
Animals	237
Other agricultural products	1,639
Lumber and forest products	716,255
Coal	174
Plaster, lime and cement	67
Salt	2,072
Petroleum	368
Railroad iron, iron and steel rails	289
Other iron and castings	325
Stone, brick and sand	135
Manufactures—articles shipped from point of production	1,096
Merchandise and other articles not enumerated above	10,889
Total forwarded	739,833

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	3,390	.459
Flour	1,659	.224
Provisions (beef, pork, lard, etc.)	1,288	.174
Animals	237	.032
Other agricultural products	1,639	.222
Lumber and forest products	716,255	96.812
Coal	174	.023
Plaster, lime and cement	67	.009
Salt	2,072	.280
Petroleum	368	.050
Railroad iron, iron and steel rails	289	.039
Other iron and castings	325	.044
Stone, brick and sand	135	.019
Manufactures—articles shipped from point of production	1,096	.148
Merchandise and other articles not enumerated above	10,389	1.405
Total tons carried	739,883	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run over your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Rate: One and one-half first class freight rate on local business. First class on through business. General express business. Freight taken at the depots.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

210 miles. Western Union Telegraph Co.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York; mileage $1,612.80.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Blue Line	Rochester, N. Y.	$245 48
Canada Southern Line	Rochester, N. Y.	171 00
Merchants' Dispatch Transportation Co.	New York	117 86
National Car Co.	St. Albans, Vt.	4 28
Red Line Transit Co.	Buffalo	5 27
Swift Refrigerator	Chicago	129 87
Burton Stock Car Co.	Boston	1 57
Armour Refrigerator	Chicago	1 57
Arms Palace Horse Car Co.	Chicago	4 72
Union Line	Pittsburgh, Pa.	2 60
Columbus & Hocking C. & I. Co.	Columbus, O.	50
Empire Line	Philadelphia, Pa.	78
G. H. Hammond & Co.	Chicago	119 68
Great Eastern Line	Detroit	6 53
Street's Stable Car Line	Chicago	1 57
Standard Oil Co.	Cleveland	4 71
Canadian Pacific Dispatch	Boston	1 53
Southern Iron Car Line	Atlanta, Ga.	69
Erie Dispatch	Chicago	2 36
Commercial Express	Buffalo	79
Union Tank Line	New York	4 22

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REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 18, Ed. Wingrove, brakeman, Thompson. Log crushing him; accidental.
March 23, Robert Cade, conducter, Loud's Junction. Fell from train; accidental.
September 12, John Gray, citizen, Loud's Junction. Asleep on track intoxicated. Trespasser; carelessness; company not responsible.
October 3, Erwin L. Snowden, passenger, Am. Station. Fell from train, carelessness; company not responsible.

INJURED.

July 16, Newton Morrison, brakeman, Emery Junction. Coupling cars; carelessness.
September 24, Thomas Keating, passenger, Hale Station. Coach thrown from track; accidental.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					1	2
Derailments				1		1
Falling from trains	1	1				
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous		1				
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks			1			
Total	1	2	1	1	1	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of persons injured during the year	2
Number of casualties purely accidental	3
Number resulting from lack of caution, carelessness or misconduct	3
Persons killed or injured while intoxicated	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	1	2
Conductors	1		1
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total	2	1	3

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

M. S. Smith and J. C. McCaul, directors of the Detroit, Bay City and Alpena Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, M. S. SMITH.
J. C. McCAUL.

Subscribed and sworn to before me this 2d day of April, A. D., 1892.
[L. S.] G. H. STALKER,
Notary Public.

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ANNUAL REPORT

OF THE

MANISTIQUE RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed April 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, M. S. SMITH, Detroit, Mich.
Vice President, LEWIS A. HALL, Bay Mills, Mich.
Secretary, J. C. McCAUL, Detroit, Mich.
Auditor, G. H. STALKER, Detroit, Mich.
Treasurer, J. C. McCAUL, Detroit, Mich.
General Superintendent, JOHN MILLEN, Black River, Mich.

DIRECTORS.

R. A. ALGER, Detroit, Mich.
M. S. SMITH, Detroit, Mich.
A. J. FOX, Detroit, Mich.
J. C. McCAUL, Detroit, Mich.
LEWIS A. HALL, Bay Mills, Mich.
RAVAND K. HAWLEY, Cleveland, O.
Terms expire December 31, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 18, 1886; amended articles Oct. 21, 1889.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$123,542 75
Total expenses, including taxes	$79,264 45	
Net income		$44,278 80
Interest on unfunded debt	$7,229 12	
Balance applicable to dividends		$37,049 18
Balance for the year		$37,049 18
Balance (profit and loss) last year		74,025 41
Balance forward to next year		$111,074 59

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	$500,000 00

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Par value of shares		$100 00	
Number of shares issued	1,500		
Amount paid in on common			$150,000 00
Total amount paid in, as per books of the company			$150,000 00
Paid in per mile of road owned by company—48 miles			$3,125 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

No funded debt.

UNFUNDED DEBT.

For construction and equipment, to be paid	$151,997 93
Total unfunded debt	$151,997 93

RECAPITULATION.

Total unfunded debt	$151,997 93
Total debt liabilities	151,997 93
Amount of debt liabilities per mile of road (48 miles)	3,166 62
Total amount of stock and debt	301,997 93
Stock and debt per mile of road (48 miles)	6,291 62

GENERAL BALANCE SHEET.—Dr.

Construction account	$327,624 53	
Equipment account	71,875 21	
		$399,499 74
Cash items:		
Cash		2,256 61
Other assets:		
Materials and supplies	$5,735 00	
Debit balances from companies and individuals	5,581 17	
		11,316 17
Total		$413,072 52

GENERAL BALANCE SHEET.—Cr.

Capital stock		$150,000 00
Unfunded debt:		
Notes payable	$60,000 00	
Vouchers and accounts	91,997 93	
		$151,997 93
Profit and loss or income accounts		111,074 59
Total		$413,072 52

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$399,499 74
Average cost per mile of road (not included in sidings, 48 miles)	8,322 91
Proportion of cost for Michigan	399,499 74

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$44,747 02
On new locomotive*	31 60
New cars	450 00
Total	$45,228 63
Total charges to property account as above	$45,228 63
Net addition to property account	45,228 63

* Part of cost of locomotive purchased in 1890.

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$2,014 94	
Total passenger fares	$2,014 94	
Total passenger department earnings		$2,014 94
Proportion for Michigan	$2,014 94	
Per train mile	04	
Per mile of road	41 98	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$121,527 81	
Total traffic	$121,527 81	
Total freight department earnings		$121,527 81
Proportion for Michigan	$121,527 81	
Per train mile	2 38	
Per mile of road	2,531 33	
Total transportation earnings		$123,542 75
Transportation earnings per mile of road	$2,573 81	
Transportation earnings per train mile	2 42	
Total earnings from operation of road		$123,542 75
Total earnings per mile of road	2,573 81	
Total earnings per train mile	2 42	
Proportion of taxable earnings for Michigan		123,542 75
Total taxable earnings per mile of road in Michigan	2,573 81	
Total income from all sources		123,542 75
Proportion of income for Michigan		123,542 75

ANALYSIS OF EXPENSES.

Maintenance of way and buildings	$11,842 17
Maintenance of motive power and cars	10,017 23
Conducting transportation	53,319 15

GENERAL EXPENSES.

Salaries of the general officers of the company	$1,650 00
Law expenses	135 00
Insurance	54 00
Stationery and printing	25 75
Contingencies	32 61
Taxes	2,188 54
Total	$4,085 90

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	15	$11,842 17
Maintenance of motive power and cars	13	10,017 23
Conducting transportation	67	53,319 15
General expenses, including taxes	05	4,085 90
Total operating expenses and taxes	100.00	$79,264 45
Operating expenses and taxes per mile of road	$1,651 34	
Operating expenses and taxes per train mile run, for trains earning revenue (51,000 miles)	1 55	
Proportion of operating expenses and taxes for Michigan		$79,264 45
Percentage of expenses to earnings		64
Net earnings per mile of road		922 47
Net earnings per train mile		87

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Main Landing to Baker's Camp, November 1, 1891,

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MAIN LINE.

	Miles.
In Michigan, from Main Landing to Baker's Camp	42
Total length completed	42

BRANCHES.

From switch to Camp 7	1.50
From switch to Camp 24	2
From switch to Camp 10	1.75
From switch to O'Neil's Camp	75
Total length of branches owned by company	6
Total length of branches owned by company in Michigan	6
Total length of road belonging to this company	48
Total length of road belonging to this company in Michigan	48
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	6
Aggregate length of tracks in Michigan belonging to this company, computed as single track	54

Gauge of track—4 feet, 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	240
Total	2	240

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
D., S. S. & A. R'y at Seney.

At what crossings are interlocking and derailing switches in operation?
Seney.

What pattern or patterns have you adopted?
Gravit.

Number of crossings of highways at grade in this State	8

Stations.

Number of stations on whole line	
Same in Michigan	

Employés.

Number persons regularly employed on all roads operated by company, including officials	39
Same in Michigan	39

Classify your employés as per following list:

	Number.
Brakemen	6
Conductors	3
Engineers	3
Firemen	3
Laborers	15
Others	9

REPAIRS AND RENEWALS.

Road Bed and Track.

Number of track sections in Michigan	6
Average length of sections (miles)	8
Average number of men in each section gang	2
Number of new ties put in whole line during the year	20,000
Number of new ties put in track in Michigan	20,000

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	3	$22,686 48
Total	3	$22,686 48

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Number of platform cars	95	$33,593 43
Number of conductor's way cars	3	1,622 00
Other cars as follows: Log cars	40	8,420 75
Total	138	$43,641 18

Number of locomotives equipped with power brakes 3

What patterns of power brakes have you in use, and number of locomotives and cars with each?
American steam brake; 3 locomotives, no cars.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by mixed trains	51,000
Total mileage of trains earning revenue	51,000

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	3,000		
Total number of passengers carried	3,000		
Total passenger mileage, or passengers carried one mile	,72,000		
Average distance traveled by each passenger		24	
Average amount received from each passenger			$0 67
Average rate of fare per mile for local passengers			02.8
Average rate of fare per mile for all passengers			02.8

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	225,002		
Total tons of freight carried	225,002		
Total mileage of local freight		51,000	
Total freight mileage, or tons carried one mile	5,762,702		
Average ton haul for local freight		25.61	
Average ton haul for all freight		25.61	
Average amount received for each ton haul			$0 55
Average rate per ton per mile, received for local freight			02
Average rate per ton per mile, received for all freight			02

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Lumber and forest products	222,022
Merchandise and other articles not enumerated above—lumbermen's supplies	2,980
Total forwarded	225,002

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Lumber and forest products	222,022	98.68
Merchandise and other articles not enumerated above	2,980	1.32
Total tons carried	225,002	100.00

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

June 6, Jacob Hacka, sectionman. Fell off flat car; his own carelessness.

INJURED.

September 26, Anthony Marchalack, O'Neil's Camp. Leg broken; struck by a plank.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars						
Derailments						
Falling from trains		1				
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous					1	
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total		1			1	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors			
Engineers			
Firemen			
Laborers	1	1	2
Shopmen			
Yardmen			
Not classified above			
Total	1	1	2

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

M. S. Smith, president, and J. C. McCaul, secretary, of the Manistique Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

M. S. SMITH.
J. C. McCAUL.

Subscribed and sworn to before me this 2d day of April, A. D. 1892.

[L. S.]

G. H. STALKER,
Notary Public.

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ANNUAL REPORT

OF THE

GRAND RAPIDS & INDIANA RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids, Mich.
First Vice President and Treasurer, W. R. SHELBY, Grand Rapids, Mich.
Second Vice Pres., Gen. Manager and Sec'y, J. H. P. HUGHART, Grand Rapids, Mich.
Auditor, F. A. GORHAM, Grand Rapids, Mich.
Division Superintendents, W. B. STIMSON, Northern Div., Grand Rapids, Mich.
P. S. O'ROURKE, Southern Div., Fort Wayne, Ind.
Chief Engineer, G. S. JOHNSON, Grand Rapids, Mich.
General Passenger and Ticket Agent, C. L. LOCKWOOD, Grand Rapids, Mich.
General Freight Agent, E. C. LEAVENWORTH, Grand Rapids, Mich.
General Counsel, T. J. O'BRIEN, Grand Rapids, Mich.

DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.
H. J. HOLLISTER, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
J. H. P. HUGHART, Grand Rapids, Mich.
J. G. WAIT, Sturgis, Mich.
F. B. STOCKBRIDGE, Kalamazoo, Mich.
JAS. MCCREA, Pittsburgh, Penn.
WILLIAM THAW, JR., Pittsburgh, Penn.
CHAS. E. SPEER, Pittsburgh, Penn.
THOS. D. MESSLER, Pittsburgh. Penn.
J. T. BROOKS, Pittsburgh, Penn.
W. H. BARNES, Philadelphia, Penn.
J. N. HUTCHINSON, Philadelphia, Penn.
Terms expire March 1, 1893.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—April 1, 1855.

Number of stockholders at date of last election	684
Number of stockholders in Michigan at same date	275

Amount of full paid stock held in Michigan at same date—Cannot answer.
Date of annual meeting of stockholders—First Wednesday in March.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$2,624,617 49
Total expenses, including taxes	$1,863,644 80	
Net income		760,972 69
Interest on funded debt	$778,719 08	
Interest on unfunded debt	70,395 56	
Rentals of buildings, tracks, etc.	26,261 96	
Balance for the year	$114,403 86	875,376 55
Balance (profit and loss) last year	166,810 46	
Items not included in above, as follows:		
Betterment expenditures charged to income	150,976 77	
Cost of refunding 7 per cent bonds	29,371 95	
Advances to C. R. & F. W. R. R. for year 1891	7,735 88	
Advances to Mackinac Island Hotel Co., year 1891	1,350 00	
Sundry old accounts paid	1,166 08	
Proportion of profit Mackinaw Transportation Co.		4,587 54
Balance forward to next year		467,277 46
	$471,815 00	$471,815 00

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$5,000,000 00
Par value of shares	$100 00		
Number of shares issued	49,860		
Amount paid in on common		$4,986,081 22	
Total amount paid in as per books of the company			$4,986,081 22
Paid in per mile of road owned by company (miles 435.12)			$11,459 09

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, Oct. 1, 1869	7%	Oct. 1, 1899	New York	$936,000 00
F. M. land grant, Oct. 1, 1869	7%	Oct. 1, 1899	" "	458,000 00
F. M. land grant guar., Oct. 1, 1869	7%	Oct. 1, 1899	" "	3,029,000 00
F. M. guar. extended, July 1, 1891	4½%	July 1, 1941	" "	952,000 00
Six per cents, Aug. 1, 1884	6%	Nov. 1, 1899	" "	3,000,000 00
Five per cents, Sept. 1, 1884	5%	Sept. 1, 1924	" "	4,625,000 00
Total funded debt				$13,000,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction	To be paid	$275,000 00
For real estate		197,649 98
For miscellaneous		690,566 13
For current balances, pay rolls, vouchers, and coupons due January 1, 1892		559,913 74
Total unfunded debt		$1,723,129 85

RECAPITULATION.

Total funded debt	$13,000,000 00
Total unfunded debt	1,723,129 85
Total debt liabilities	$14,723,129 85
Amount of debt liabilities per mile of road (435.12 miles)	$33,836 80
Total amount of stock and debt	19,709,211 07
Stock and debt per mile of road (435.12 miles)	45,296 04

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GENERAL BALANCE SHEET.—Dr.

Construction account		$17,376,661 02
Other investments:		
Capital stock Muskegon, Grand Rapids & Indiana R. R.	$930 00	
Stock and investment Mackinac Island Hotel Co.	42,500 00	
Stock and investment Mackinac Transportation Co.	117,000 00	
Capital stock Grand Rapids, Indiana & Manistee R. R.	1,350 00	
		161,780 00
Cash items:		
Cash	$101,662 38	
Bills receivable	1,882 43	
Due from agents	60,304 32	
		163,849 13
Other assets:		
Materials and supplies	$117,990 83	
Debit balances from companies and individuals	193,542 77	
6% bonds	300,000 00	
7% bonds	910,000 00	
		1,521,533 60
Balance		485,387 32
Total		$19,709,211 07

GENERAL BALANCE SHEET.—Cr.

Capital stock		$4,986,061 22
Funded debt		13,000,000 00
Unfunded debt:		
Interest unpaid	$301,350 08	
Notes payable	426,666 66	
Vouchers and accounts	351,109 83	
Other liabilities:		
Bond and mortgage on real estate	47,649 98	
Mackinaw loan	275,000 00	
The Philadelphia Trust, Safe Deposit & Insurance Co., and Wm. H. Barnes, trustees	310,679 44	
Due other companies	110,673 91	
		1,723,129 85
Total		$19,709,211 07

COST OF ROAD AND EQUIPMENT.

Purchased by Present Company.

When received from Construction Co.—December, 1873.		
Original cost to present company of road and equipment	$10,848,250 00	
Add stock issued in 1888, account of original subscription	1,000 00	
		$10,849,250 00
Amount expended since purchase, account of construction		5,910,704 53
Amount expended since purchase, account of equipment		616,706 49
Total cost to date of report		$17,376,661 02
Average cost per mile of road (not including sidings)		$39,935 83
Proportion of cost for Michigan		15,255,695 62

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

All betterment expenditures for year 1891 charged to income.

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Other sources.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$758,813 08	$6,603 39	$765,416 47	$40,244 97	$42,326 86	$18,053 86	$866,041 66	$760,334 10	$0 93	$1,990 35
Leased or proprietary roads:										
Muskegon, G. R. & Ind. R. R.	18,997 60	41,344 96	60,342 56	3,064 86	3,029 50	1,027 29	67,464 21	67,464 21	89	1,880 79
Traverse City R. R.	7,949 20	11,583 88	19,533 17	2,159 00	1,927 95	----------	23,620 12	23,620 12	54	908 47
Total passenger dep't earnings	$785,759 97	$59,532 23	$845,292 20	$45,468 83	$47,283 31	$19,081 15	$957,125 99	$851,418 43	$0 91	$1,913 90

FREIGHT EARNINGS.

	Local traffic.	Through traffic.	Total traffic.	Other sources, Freight dep't.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$1,443,943 68	$48,689 98	$1,492,633 66	$18,509 90	$1,511,143 56	$1,326,695 97	$1 45	$3,472 94
Leased or proprietary roads:								
Muskegon, Grand Rapids & Indiana R. R.	26,280 25	81,518 10	107,798 35	5,189 99	112,988 34	112,988 34	4 38	3,066 17
Traverse City R. R.	13,302 30	5,741 25	19,043 55	495 13	19,538 68	19,538 68	1 06	751 49
Total freight department earnings	$1,483,526 23	$135,949 33	$1,619,475 56	$24,195 02	$1,643,670 58	$1,459,222 99	$1 52	$3,280 18

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Total transportation earnings	$2,600,796 57
Transportation earnings per mile of road	5,194 08
Transportation earnings per train mile	2 43
Miscellaneous receipts from operating account other than for transportation as follows:	
From telegraph	12,414 05
From rentals of tracks or terminals	11,406 87
Total	$23,820 92

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

Company.	Total miscellaneous.	Proportion for Michigan.
Grand Rapids & Indiana Railroad	$23,228 57	$20,893 83
Muskegon, Grand Rapids & Indiana R. R.	254 05	254 05
Traverse City Railroad	338 30	338 30

Total earnings from operation of road		$2,624,617 49
Total earnings per mile of road	$5,270 63	
Total earnings per train mile	1 23	
Proportion of taxable earnings for Michigan	2,331,627 10	
Total taxable earnings per mile of road in Michigan	5,241 26	
Income other than from earnings		4,537 54
Total income from all sources		$2,629,155 03
Proportion of income for Michigan		$2,335,610 80

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$204,215 87
Renewals of rails	5,541 77
Renewals of ties	44,992 95
Repairs of bridges, including culverts and cattle guards	53,315 62
Repairs of fences, road crossings, and signs	38,306 86
Repairs of buildings	52,579 57
Total	$398,952 64

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$140,809 88
Repairs of passenger cars	57,517 06
Repairs of freight cars	173,402 70
Total	$371,729 61

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$213,963 23
Water supply	12,313 50
Oil and waste	15,126 96
Locomotive service	157,933 88
Passenger train service	56,533 63
Passenger train supplies	4,729 23
Mileage of passenger cars	846 44
Freight train service	86,944 94
Freight train supplies	1,475 82
Mileage of freight cars	4,426 66
Telegraph expenses (maintenance and operating)	43,708 05
Damage and loss of freight and baggage	8,942 81
Damages to property and cattle	2,756 46
Personal injuries	27,881 85
Agents and station service	220,406 45
Station supplies	10,862 11
Total	$871,311 92

GENERAL EXPENSES.

Salaries of the general officers of the company	$30,532 10
Salaries of clerks in general offices	52,716 96
Law expenses	8,083 21
Insurance	3,442 76
Stationery and printing	24,689 76
Outside agencies and advertising	18,404 94
Contingencies	24,957 96
Taxes	58,872 92
Total	$221,650 62

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	21.41	$398,952 64
Maintenance of motive power and cars	19.95	371,729 61
Conducting transportation	46.75	871,311 92
General expenses, including taxes	11.89	221,650 63
Total operating expenses and taxes	100.00	$1,863,644 80
Operating expenses and taxes per mile of road		$3,742 48
Operating expenses and taxes per train mile run, for trains earning revenue (2,183,849 miles)		87

PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.

Main line	$1,501,423 16	
Leased or proprietary roads.		
Muskegon, Grand Rapids & Indiana R. R.	118,155 96	
Traverse City Railroad	35,326 18	
Total proportion of expenses for Michigan		1,654,905 30
Percentage of expenses to earnings	71.006%	
Net earnings per mile of road		1,528 15
Net earnings per train mile		86

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Fort Wayne, Ind., to Mackinaw City, Mich., July 3, 1882.

BRANCHES.

From Milton Junction, Mich., to Carey, Mich., 1882.
From Deer Lake, Mich., to Raignels, Mich., 1883.
From Kegomic, Mich., to Harbor Springs, Mich., February 1, 1882.
From Missaukee Junction, Mich., to Jennings, Mich., 1882.
From Osceola Junction, Mich., to Olga, Mich., 1885.
From Jennings Junction, Mich., to Lake City, Mich., 1890.
From Big Rapids, Mich., to Vincent, Mich., 1890.

MAIN LINE.

	Miles
In Michigan, from Indiana State line to Mackinaw City	313.48
In Indiana, from Fort Wayne to Michigan State line	53.11
Total length completed	366.59
Length of double track on main line	2.76

BRANCHES.

Missaukee Branch, from Missaukee Junction to Lake City	11.57
Jenning's Spur, from Jenning's Spur Junction to Jennings	3.00
Manistee Branch, from Milton Junction to Carey	14.51
Deer Lake Spur, from Deer Lake Junction to Raignel	6.96
Haak's Spur, from Haak's Spur Junction to Hall's Mill	4.09
Osceola Branch, from Osceola Junction to Olga	7.03
Harbor Springs Branch, from Kegomic to Harbor Springs	5.76
Ludington Branch, from Stimson's Junction to Vincent	8.92
Plaster Mill Junction, from Bartlett St. Junction to South Grand Rapids	3.98
Total length of branches owned by company	68.53
Total length of branches owned by company in Michigan	68.53
Total length of road belonging to this company	435.12
Total length of road belonging to this company in Michigan	382.01
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	100.21
Aggregate length of tracks in Michigan belonging to this company, computed as single track	484.98

Gauge of track, 4 feet 9 inches.

Proprietary or leased roads operated by this company.

Name, description and length of each:

	Total miles.	In Michigan.
Muskegon, Grand Rapids & Indiana R. R.	36.85	36.85
Traverse City Railroad	26.00	26.00
Cincinnati, Richmond & Fort Wayne R. R.	85.60	
Total	148.45	62.85
Total miles operated by this company	583.57	444.86

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	10	1,139.2
Stone bridges	1	18.8
Iron bridges	18	877.5
Combination bridges	7	1,091
Wooden trestles	147	13,005.8
Total	183	16,132.3

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Lake Shore & Michigan Southern R'y at Sturgis (2), Kalamazoo, Plainwell and Grand Rapids.
Michigan Central R. R. at Wasepi and Kalamazoo.
Chicago & Grand Trunk R'y at Vicksburg.
Cincinnati, Jackson & Mackinaw R. R. at Monteith.
Chicago & West Michigan R'y at Grand Rapids (2), Mill Creek, Fruitport Junction, Muskegon and Traverse City.
Detroit, Grand Haven & Milwaukee R'y at Grand Rapids.
Detroit, Lansing & Northern R. R. at Grand Rapids and Big Rapids.
Toledo, Saginaw & Muskegon R. R. at Cedar Springs.
Flint & Pere Marquette R. R. at Reed City.
Toledo, Ann Arbor & North Michigan R'y at Cadillac.
Cadillac & Northeastern R. R. at Cadillac.
Smith Lumber Company R. R. at Kalkaska.

What railroads cross your road either over or under your grade in this State and where?
Over:
Detroit, Grand Haven & Milwaukee R'y near Kinney.
At what crossings are interlocking and derailing switches in operation?
Michigan Central R. R. at Wasepi.
Detroit, Lansing & Northern R. R. at Grand Rapids.
Chicago & West Michigan R'y at Grand Rapids & Traverse City.
Toledo, Saginaw & Muskegon R. R. at Cedar Springs.
Toledo, Ann Arbor & North Michigan R'y at Cadillac.
Cadillac & Northeastern R. R. at Cadillac.
Smith Lumber Company R. R. at Kalkaska.

What pattern or patterns have you adopted?
Union Switch & Signal Co., Wharton, Allentown and Gravit.

Number of crossings of highways at grade in this State	597
Number of crossings of highways at grade in this State at which there are gates or flagmen	39
Number of crossings at which there are electric or automatic signals	8

What pattern or patterns in use?
Pennsylvania Steel Company.

Number of crossings of highways over or under railroad (over 5, under 2)	7
Number of highway bridges 18 feet above track	5
Have safety guards been erected at over-head obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Wooden blocks.

Stations.

Number of stations on whole line	140
Same in Michigan	103

Employés.

Number persons regularly employed on all roads operated by company, including officials	2,191
Same in Michigan	1,884

Classify your employés as per following list:

	Number.
Baggagemen	24
Brakemen	135
Conductors	78
Engineers	95
Firemen	96
Laborers	613
Shopmen	271
Yardmen	110
Others	769

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	349
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
Newaygo	87
Mecosta	
Osceola	
Lake	
Wexford	
Missaukee	
Grand Traverse	
Emmet	

Road Bed and Track.

Number of track sections in Michigan	100
Average length of sections (miles)	4.38
Average number of men in each section gang	4.00
Number of new ties put in whole line during the year	144,978
Number of new ties put in track in Michigan	139,499
Average number of new ties per mile of road	836
New rails put in track:	
Steel (tons 501) miles	5.31

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	514
Timber culverts replaced during the year:	
With iron pipe, number	3
With sewer pipe, number	15
With timber, number	11
New bridges built during the year, number	2

Location.	Kind.	Material.	Month built.	Feet in length.
Haak's spur	Timber trestle	Wood	December	112

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		48	$240,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		11	33,000 00
Total		59	$273,000 00
Number of passenger cars—12 wheel, including official cars		13	$39,000 00
Number of passenger cars— 8 wheel, including official cars		55	137,500 00
Number of express and baggage cars		24	36,000 00
Number of box freight cars		1,410	423,000 00
Number of stock cars		50	15,000 00
Number of platform cars		1,390	347,500 00
Number of ore cars		189	47,250 00
Number of conductors' way cars		52	13,000 00
Other cars as follows:			
Snow plows	4		
Tool cars	7		
Derricks	2		
		13	6,500 00
Pile driver	1		
Inspection car	1		
Logging cars	20		
		22	3,000 00
Total		3,218	$1,340,750 00

Number of locomotives equipped with power brakes	54
Number of passenger-train cars equipped with power brakes	92
Number of freight cars equipped with power brakes	96

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse except 3 locomotives have steam driver brake.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

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What pattern or patterns have you adopted for use?
Janney.

How are your passenger cars heated?
Steam

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	1,027,724
Miles run by freight trains during the year	1,020,245
Miles run by mixed trains	85,880
Total mileage of trains earning revenue	2,133,849

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	59,845		
Number of local passengers carried	1,156,371		
Total number of passengers carried	1,216,216		
Total passenger mileage, or passengers carried one mile	36,022,062		
Average distance traveled by each passenger		29.62	
Average amount received from each passenger			$0 70
Average rate of fare per mile for through passengers			02.428
Average rate of fare per mile for local passengers			02.341
Average rate of fare per mile for all passengers			02.347

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	174,415		
Number of tons of local freight carried	1,914,402		
Total tons of freight carried	2,088,817		
Total mileage of through freight		15,054,406	
Total mileage of local freight		154,934,903	
Total freight mileage or tons carried one mile		169,989,309	
Average ton haul for through freight		86.31	
Average ton haul for local freight		80.93	
Average ton haul for all freight		81.38	
Average amount received for each ton haul			$0 75
Average rate per ton per mile received for through freight			.903
Average rate per ton per mile received for local freight			.928
Average rate per ton per mile received for all freight			.958

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	32,957
Flour	27,069
Provisions (beef, pork, lard, etc.)	6,558
Animals	5,525
Other agricultural products	75,298
Lumber and forest products	955,714
Coal	51,205
Plaster, lime and cement	24,565
Salt	9,179
Petroleum	9,410
Railroad iron, iron and steel rails	3,069
Pig and bloom iron	45,823
Other iron and castings	39,450
Ores	32,434
Stone, brick and sand	17,419
Manufactures—articles shipped from point of production	48,961
Merchandise and other articles not enumerated above	125,045
Total forwarded	1,509,681

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	44,372	2.12
Flour	27,388	1.31
Provisions (beef, pork, lard, etc.)	6,698	.32
Animals	8,993	.43
Other agricultural products	82,808	3.97
Lumber and forest products	969,623	46.42
Coal	119,464	5.72
Plaster, lime and cement	27,350	1.31
Salt	9,637	.46
Petroleum	14,696	.70
Railroad iron, iron and steel rails	5,076	.24
Pig and bloom iron	46,465	2.23
Other iron and castings	58,630	2.81
Ores	32,435	1.55
Stone, brick and sand	431,931	20.68
Manufactures—articles shipped from point of production	52,002	2.49
Merchandise and other articles not enumerated above	151,254	7.24
Total tons carried	2,088,817	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

Adams Express Company; 40% of gross earnings, a minimum of $36,000 per year guaranteed; all freight received and delivered at depots; the above covers all lines operated by this company.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

	Miles.
Telegraph	1,022.68
Telephone	54.00
Total	1,076.68

All belonging to this company.

Transportation Companies.

SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year; on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York, terms 2 cents per mile	$9,121 64
Pullman Palace Car Co., Chicago, terms 3 cents per mile	46 08

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Cannot answer.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 14, Mrs. Hurser, Vicksburg. Crossing track.
February 21, Peter Petoskey, Indian, trespasser, 2 m. s. Alba. Lying on track, intoxicated; carelessness.
March 29, Patrick Wall, painter, Kalamazoo. Intoxicated.
April 18, J. A. Davis, trespasser, Grand Rapids. Walking on track; carelessness.
April 19, A. H. Leeland, trespasser, Mill Creek. Standing on track; carelessness.
April 27, Albert Sparks (col'd), trespasser, Grand Rapids. Getting on engine; carelessness.
May 1, A. C. Bowman, trespasser, Petoskey. Standing on track; carelessness.
July 7, C. Lynch, farmer boy, S. Grand Rapids. Trespasser.
September 17, C. A. Gould, switchman, Grand Rapids. Coupling, accidental; company exonerated.
November 14, Frank Fulrich, trespasser, Grand Rapids. Walking on track; carelessness.
November 17, Fremont Howard, brakeman, Gilberts. Collision; carelessness.
November 17, James Smith, engineer, Gilberts. Collision.
November 17. Thos. Pickle, fireman, Gilberts. Collision.

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INJURED.

January 16, Mrs. Gustavison, trespasser, Lake City. Walking on track; lack of caution.
February 7, John Smith, laborer work train, Moline. Struck by falling sand in pit.
February 13, L. Holt, laborer work train, Austin. Struck by falling sand in pit.
February 17, J. W. Banwell, trespasser, Alanson. Going under cars; lack of caution.
March 2, P. Gilchrist, brakeman, Montieth. Fell with tie.
March 3, F. S. Bowen, ass't R. M., Montieth. Coupling cars.
March 16, Miss E. Hagerstay, passenger, Muskegon. Rear collision; accidental.
March 16, James Brown, fireman, Muskegon. Rear collision; accidental.
April 17, A. H. Doling, switchman, Grand Rapids. Coupling; accidental.
May 11, W. H. Tando, section foreman, Mendon. Caught between tie and rail.
May 21, Howard Wager, trespasser, Morley. Getting on train; carelessness.
June 20, N. Lansta, Grand Rapids. Highway collision.
June 21, H. M. Simmons, trespasser, 3 m. n. Stanwood. Lying on track; carelessness.
August 5, Dr. J. B. Carriel, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, A. O. Davids, Kalamazoo. Splice bars removed by some unknown person.
August 5, Miss Carrie Hawley, Kalamazoo. Splice bars removed by some unknown person.
August 5, C. C. Chamberlain, Kalamazoo. Splice bars removed by some unknown person.
August 5, Helen Shoemaker, Kalamazoo. Splice bars removed by some unknown person.
August 5, John E. Kay, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Mrs. John E Kay, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, M. D. Williamson, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, M. R. Powers, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, W. S. Bratt, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, A. Conway, brakeman, Kalamazoo. Splice bars removed by some unknown person.
August 5, L. Waterman, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, P. Huffmaster, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Henry Mitchell, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, H. K. Dykhouse, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Maud Haines, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Minnie Dayton (or Davis), passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Chas. A. Stillman, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Mrs. Frank McCullum, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, F. A. Burman, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Phoebe Hough, passenger, Kalamazoo. Splice bars removed by some unknown person.
August 5, Gentleman and lady (names unknown), Kalamazoo. Splice bars removed by some unknown person.
August 5, Frank King, trespasser, Cedar Springs. Riding on train; carelessness.
August 14, Walter McNabb, trespasser, Grand Rapids. Getting on train; carelessness.
August 18, W. J. White, passenger, between Moline and Ross. Jumped from train.
August 19, John Kelly, trespasser, 3 m. s. Traverse City. Walking on track; carelessness.
September 11, John Bowen, trespasser, Oden. Walking on track; carelessness.
October 4, J. Verol, brakeman, Grand Rapids. Projecting lumber.
October 19, Richard Collins, passenger, Wasepi. Jumped from train.
November 12, Jos. Keenan, carpenter, Grand Rapids. Falling from bridge; accidental.
November 12, Sherman Goodrich, carpenter, Grand Rapids. Falling from bridge; accidental.
November 17, Amos Enos, brakeman, Gilberts. Collision; carelessness.
November 17, Chas. Outhouse, fireman, Gilberts. Collision; carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers	Employés.	Others.	Passengers	Employés.	Others.
Collisions		3		1	3	
Coupling cars		1			1	
Derailments				23	1	
Falling from trains						
Frogs						
Getting on and off trains			1	2		
Highway crossings						
Miscellaneous					8	
Overhead obstructions						
Trespassers on trains			2			3
Trespassers on tracks			6			5
Total		4	9	26	13	8

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	13
Number of persons injured during the year	47
Number of casualties purely accidental	11
Number resulting from lack of caution, carelessness, or misconduct	49
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured	15

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	4	5
Conductors			
Engineers	1		1
Firemen	1	2	3
Laborers		3	3
Shopmen			
Yardmen	1	1	2
Not classified above		3	3
Total	4	13	17

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Wm. R. Shelby, first vice president, and F. A. Gorham, auditor, of the Grand Rapids & Indiana Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,
W. R. SHELBY,
F. A. GORHAM.

[L. S. OF R. R.]
Subscribed and sworn to before me this 1st day of April, A. D., 1892.
[L. S.]

FRANK L. DANFORTH,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD CO.,

For the year ending December 31, 1891.

[Filed April 25, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids, Mich.
Secretary, J. H. P. HUGHART, Grand Rapids, Mich.
Treasurer, W. R. SHELBY, Grand Rapids, Mich.
General Manager, J. H. P. HUGHART, Grand Rapids, Mich.

DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
T. J. O'BRIEN, Grand Rapids, Mich.
J. H. P. HUGHART, Grand Rapids, Mich.
L. N. KEATING, Muskegon, Mich.
N. MCGRAFT, Muskegon, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When articles of association filed—February 12, 1886.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$1,000 00

Fiscal year of company ends—December 31.
General offices of the company are located at Grand Rapids, Mich.

REMARKS.

Leased to Grand Rapids & Indiana Railroad Company for 99 years; terms, net earnings, guaranteed to be equal to interest on bonds.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$350,000 00
Par value of shares	$100 00		
Number of shares issued	None.		
Amount paid in on shares not issued (number), 200		$1,000 00	
Total amount paid in as per books of the company			$1,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, June 9, 1886	5%	July 1, 1926	New York	$750,000 00
Total funded debt				$750,000 00

These bonds are issued by the Grand Rapids & Indiana Railroad Company and are secured by a first mortgage on the railroad and property of the Muskegon, Grand Rapids and Indiana Railroad Co.

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UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction	To be paid	$40 75
For miscellaneous	Coupons due January 1, 1892; to be paid	18,825 00
Total unfunded debt		$18,865 75

RECAPITULATION.

Total funded debt	$750,000 00
Total unfunded debt	18,865 75
Total debt liabilities	$768,865 75
Amount of debt liabilities per mile of road (36.85 miles)	$20,864 94
Total amount of stock and debt	769,865 75
Stock and debt per mile of road	20,891 88

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year? $37,500 00

Was it paid for the last year?
Yes.

If interest is in default state the years and amounts as follows:
None.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction	$746,978 21
Average cost per mile of road (not included in sidings, (36.85 miles)	20,270 78
Proportion of cost of construction for Michigan	746,978 21

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
December 1, 1886.

MAIN LINE.

	Miles.
Length completed in Michigan	36.85
Total length completed	36.85
Total length of road belonging to this company	36.85
Total length of road belonging to this company in Michigan	36.85
Aggregate length of sidings, spurs and other tracks not above enumerated	9.12
Same in Michigan	9.12
Aggregate length of tracks belonging to this company computed as single track	45.97
Same in Michigan	45.97

Gauge of track 4 feet 9 inches.

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

W. O. Hughart, president, and J. H. P. Hughart, secretary of the Muskegon, Grand Rapids & Indiana Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

W. O. HUGHART, *President*,
J. H. P. HUGHART, *Secretary*.

Subscribed and sworn to before me this 23d day of April, A. D. 1892.
[L. S.]

F. A. GORHAM.
Notary Public, Kent Co. Mich.

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ANNUAL REPORT

OF THE

TRAVERSE CITY RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 8, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, PERRY HANNAH, Traverse City, Mich.
Secretary, Treasurer and General Manager,
J. H. P. HUGHART, Grand Rapids, Mich.

DIRECTORS.

PERRY HANNAH, Traverse City, Mich.
W. H. C. MITCHELL, Traverse City, Mich.
THOS. T. BATES, Traverse City; Mich.
D. C. LEACH, Traverse City, Mich.
W. R. SHELBY, Grand Rapids, Mich.
W. O. HUGHART, Grand Rapids, Mich.
Terms expire May 5, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When articles of association filed—October 30, 1871.

Number of stockholders at date of last election	75
Number of stockholders in Michigan at same date	73
Amount of full paid stock held in Michigan at same date	$35,150

Date of annual meeting of stockholders—Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Traverse City, Mich.

REMARKS.

Leased to Grand Rapids & Indiana Railroad Company for 50 years from January 1, 1883; rental, net earnings, guaranteed to be not less than interest on first mortgage bonds, or $7,500 per year.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$205,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	2,050		
Amount paid in on common		$205,000 00	
Total amount paid in, as per books of the company			$205,000 00
Paid in per mile of road owned by company—26 miles			$7,884 62

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, January 1, 1883	3%	January 1, 1933	New York	$250,000 00
Income, January 1, 1883	not over 5%	January 1, 1933	New York	190,000 00
Total funded debt				$440,000 00

UNFUNDED DEBT.

For miscellaneous (coupons due January 1, 1892), to be paid	$3,750 00

RECAPITULATION.

Total funded debt	$440,000 00
Total unfunded debt	3,750 00
Total debt liabilities	$443,750 00
Amount of debt liabilities per mile of road	$17,067 31
Total amount of stock and debt	648,750 00
Stock and debt per mile of road	24,951 93

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$7,500 00

Was it paid for the last year?
Yes.
If interest is in default state the years and amounts as follows:
None.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$646,268 15
Average cost per mile of road (not included in sidings, 26 miles)	24,856 47
Proportion of cost of construction for Michigan	646,268 15

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
December 1, 1872.

MAIN LINE.

	Miles.
Length completed in Michigan	26.00
Total length completed	26.00
Total length of road belonging to this company	26.00
Total length of road belonging to this company in Michigan	26.00
Aggregate length of sidings, spurs and other tracks not above enumerated	3.02
Same in Michigan	3.02
Aggregate length of tracks belonging to this company computed as single track	29.02
Same in Michigan	29.02

Gauge of track 4 feet 9 inches.

STATE OF MICHIGAN, }
COUNTY OF GRAND TRAVERSE. } ss.

Perry Hannah, president, and John H. P. Hughart, secretary, of the Traverse City Railroad Company, being duly sworn, depose and say, that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, PERRY HANNAH, *President.*
[L. S. OF R. R.] JOHN H. P. HUGHART, *Secretary.*

Subscribed and sworn to by Perry Hannah, president, before me this 4th day of April, A. D., 1892.
[L. S.] GEO. W. HALL,
Notary Public.

Subscribed and sworn to by J. H. P. Hughart, secretary, before me this 6th day of April, A. D. 1892.
[L. S.] FRANK L. DANFORTH,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

CINCINNATI, JACKSON & MACKINAW RAILROAD CO.,

WALSTON H. BROWN, *Receiver.*

For the year ending December 31, 1891.

[Filed April 5, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Acting Auditor, W. F. BOOTH, Toledo, Ohio.
General Manager, F. B. DRAKE, Toledo, Ohio.
Superintendent, J. B. FLANDERS, Toledo, Ohio.
Division Superintendent, W. T. BACKUS, Van Wert, Ohio.
Chief Engineer, W. D. WILLIAMS, Van Wert, Ohio.
Cashier, O. A. WILSON, Toledo, Ohio.
General Passenger and Freight Agent, T. C. M. SCHINDLER, Toledo, Ohio.
General Counsel, SWAYNE, SWAYNE & HAYES, Toledo, Ohio.
Receiver, WALSTON H. BROWN, New York, N. Y.

STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

General offices of the Receiver are located at Toledo, Ohio.

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$728,981 34
Total expenses, including taxes		$590,111 52	
Net income			$138,869 82
Interest on unfunded debt	$1,078 22		
Rentals of buildings, tracks, etc.	18,617 98		
Rentals of engines and cars		$19,696 20	
Balance for the year			$119,173 62
Balance (profit and loss) last year			141,767 10
Balance forward to next year			$260,940 72

ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.

For miscellaneous	$5,159 37
For current balances	133,684 30
Total unfunded debt	$138,843 67

RECAPITULATION.

Total unfunded debt	$138,843 67
Total debt liabilities	$138,843 67
Amount of debt liabilities per mile of road (326.1 miles)	425 77

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GENERAL BALANCE SHEET.—Dr.

Improvement account Equipment account	$66,994 34	
Other investments:		
Haskell & Barker Car Co. lease	134,000 00	
C., J. & M. R. R. Co.	82,323 15	
Suspense accounts	942 43	
		$234,259 92
Cash items:		
Cash	$10,709 37	
Due from agents	31,466 61	
		42,175 98
Other assets:		
Materials and supplies	$21,820 55	
Debit balances from companies and individuals	51,527 94	
		73,348 49
Total		$399,784 39

GENERAL BALANCE SHEET.—Cr.

Unfunded debt:		
Vouchers and accounts	$123,684 30	
Other liabilities:		
Destroyed car fund	5,159 37	
		$128,843 67
Profit and loss or income accounts		260,940 72
Total		$399,784 39

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

Amount expended by receiver, account of improvement Amount expended since purchase, account of equipment	$66,994 34

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$5,807 26
New buildings	2,252 53
New fences	494 81
Machinery and tools	1,485 68
New locomotives	42,488 84
New cars	543 66
Total	$53,067 88
Total charges to property account as above	$53,067 88
Net addition to property account	53,067 88

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$143,017 53	
Through fares	33,041 96	
Total passenger fares	$176,059 49	
Express and baggage	34,599 96	
Mails	21,313 92	
Total passenger department earnings		$231,973 37
Proportion for Michigan	$114,411 82	
Per train mile	55	
Per mile of road	664 49	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$320,656 53	
Through traffic	154,214 38	
Total traffic	$474,870 91	
Total freight department earnings		$474,870 91

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Proportion for Michigan	$334,211 56	
Per train mile	1 10	
Per mile of road	1,360 27	
Total transportation earnings		$706,844 28
Transportation earnings per mile of road operated, 349.1 miles	$2,024 73	
Transportation earnings per train mile, 855,840 miles	83	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From other sources		22,137 06
Total earnings from operation of road		$728,981 34
Total earnings per mile of road operated, 349.1 miles	$2,088 17	
Total earnings per train mile	85	
Proportion of taxable earnings for Michigan	359,541 62	
Total taxable earnings per mile of road in Michigan	2,088 17	
Total income from all sources		$728,981 34
Proportion of income for Michigan		$359,541 62

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$81,383 10
Renewals of ties	17,182 11
Repairs of bridges, including culverts and cattle guards	15,092 36
Repairs of fences, road crossings, and signs	2,994 21
Repairs of buildings	8,421 77
Total	$125,073 55

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$49,610 60
Repairs of passenger cars	15,385 91
Repairs of freight cars	38,042 54
Total	$102,988 15

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$67,652 28
Water supply	4,392 41
Oil and waste	4,564 30
Locomotive service	60,051 68
Passenger train service	12,739 83
Passenger train supplies	1,683 67
Mileage of passenger cars	674 23
Freight train service	31,347 47
Freight train supplies	361 64
Telegraph expenses (maintenance and operating)	19,755 69
Damage and loss of freight and baggage	688 00
Damages to property and cattle	1,678 70
Personal injuries	1,086 58
Agents and station service	38,099 11
Station supplies	2,330 32
Total	$247,005 91

GENERAL EXPENSES.

Salaries of the general officers of the company	$18,580 00
Salaries of clerks in general offices	17,576 55
Law expenses	3,385 09
Insurance	3,775 02
Stationery and printing	5,902 24
Outside agencies and advertising	9,548 51
Contingencies	8,327 75
Taxes	47,948 75
Total	$115,043 91

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	21.20	$125,073 55
Maintenance of motive power and cars	17.45	102,968 15
Conducting transportation	41.86	247,005 91
General expenses, including taxes	19.49	115,043 91
Total operating expenses and taxes	100.00	$590,111 52
Operating expenses and taxes per mile of road		$1,690 38
Operating expenses and taxes per train mile run, for trains earning revenue (855,640 miles)		69
Proportion of operating expenses and taxes for Michigan		291,049 49
Percentage of expenses to earnings	80 95	
Net earnings per mile of road		397 79
Net earnings per train mile		16

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

MAIN LINE.

From Dundee, Mich., to Allegan, Mich., Nov. 29, 1883.
From Addison Junction, Mich., to C. C. C. & St. L. Junction, Ohio, July 10, 1889.

BRANCHES.

Lewisburg, Ohio, to Quarries, 1887.
Germantown, Ohio, to Rohnes, 1887.

MAIN LINE.

	Miles.
In Michigan, from Dundee to Allegan	133
In Michigan, from Addison Junction to State line	22.18
In Ohio, from State line to C., C. C. & St. L. Junction	167.72
Total length completed	322.9

BRANCHES.

Euphemia, from Lewisburg, O., to Quarries	1.4
Mud Lick, from Germantown, O., to Rohnes	1.8
Total length of branches owned by company	3.2
Total length of road belonging to this company	326.1
Total length of road belonging to this company in Michigan	155.18
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	16.45
Aggregate length of tracks in Michigan belonging to this company, computed as single track	171.63

Gauge of track 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:
Under trackage contracts—

	Total miles.	In Michigan.
Wheeling & Lake Erie R'y, Toledo, Ohio, to Manchester Junction, Ohio	2.1	
Toledo, Ann Arbor & Northern Michigan R'y, Manchester Junction to Dundee, Mich.	20.9	17
Total	23	17
Total miles operated by the company	349.1	172.18

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	1	144
Wooden trestles	89	21,926
Total	90	22,070

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Wabash R. R. at Britton.
Lake Shore & Michigan Southern R'y at Tecumseh, Hanover, Homer and Allegan.
Michigan Central R. R. at Homer and Battle Creek.
Chicago & Grand Trunk R'y at Battle Creek

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Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction near Richland.
Grand Rapids & Indiana R. R. at Montieth.

What railroads cross your road either over or under your grade in this State and where?
Over:

Lake Shore & Michigan Southern R'y at Jerome and Hudson.
Under:
Michigan Central R. R. at Augusta.

At what crossings are interlocking and derailing switches in operation?
Chicago, Kalamazoo & Saginaw R'y at Kalamazoo Junction.
Michigan Central R. R. at Battle Creek.

What pattern or patterns have you adopted? None.

Number of crossings of highways at grade in this State	187
Number of crossings of highways at grade in this State at which there are gates or flagmen	1
Number of crossings of highways over or under railroad—over 1, under 5	6
Number of highway bridges 18 feet above track	1

Number of highway bridges less than 18 feet above track:
None.

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Wooden blocks.

Stations.

Number of stations on whole line	83
Same in Michigan	36

Employés.

Number persons regularly employed on all roads operated by company, including officials	662
Same in Michigan	310

Classify your employés as per following list:

	Number.
Baggagemen	6
Brakemen	46
Conductors	24
Engineers	35
Firemen	33
Laborers	217
Shopmen	78
Yardmen	8
Others	215

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	308
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:	
Allegan county	.762

Road Bed and Track

Number of track sections in Michigan	22
Average lengths of sections (miles)	7.05
Average number of men in each section gang	4
Number of new ties put in whole line during the year	50,433
Number of new ties put in track in Michigan	30,939
Average number of new ties per mile of road in Michigan	206

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	28	$84,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	2,000 00
Total	29	$86,000 00
Number of passenger cars—8 wheel, including official cars	20	38,400 00
Number of express and baggage cars	3	3,600 00
Number of box freight cars	1,081	216,200 00
Number of stock cars	19	1,900 00
Number of platform cars	265	33,125 00
Number of ore cars	117	17,550 00
Number of conductors' way cars	13	5,200 00
Other cars as follows:		
Derrick	1	1,500 00
Steam shovel	2	4,000 00
Total	1,521	$407,475 00

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Number of locomotives equipped with power brakes	23
Number of passenger train cars equipped with power brakes	28

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse 11 locomotives, 23 cars.
American steam 11 locomotives.
New York air brake 1 locomotive.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No cars purchased, built, or rebuilt.

How are your passenger cars heated?
Steam 5 cars.
Spear heater 2 cars.
Baker heater 14 cars.
Consolidated heater 2 cars.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	394,569
Miles run by freight trains during the year	350,699
Miles run by mixed trains	110,372
Total mileage of trains earning revenue	855,640

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	28,892		
Number of local passengers carried	319,986		
Total number of passengers carried	348,878		
Total passenger mileage, or passengers carried one mile	7,387,677		
Average distance traveled by each passenger		20.9	
Average amount received from each passenger			$0 50.5
Average rate of fare per mile for through passengers			02.10
Average rate of fare per mile for local passengers			02.46
Average rate of fare per mile for all passengers			02.37

Freight Traffic.

	Numbers and quantities.	Miles.	Rate
Number of tons of through freight carried	274,428		
Number of tons of local freight carried	415,398		
Total tons of freight carried	689,826		
Total mileage of through freight	25,540,424		
Total mileage of local freight	35,470,018		
Total freight mileage, or tons carried one mile	61,010,442		
Average ton haul for through freight		93	
Average ton haul for local freight		85	
Average ton haul for all freight		88	
Average amount received for each ton haul			$0 69
Average rate per ton per mile, received for through freight			.60
Average rate per ton per mile, received for local freight			.90
Average rate per ton per mile, received for all freight			.78

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	20,821
Flour	6,080
Provisions (beef, pork, lard, etc.)	860
Animals	3,356
Other agricultural products	5,688
Lumber and forest products	45,156
Coal	636
Plaster, lime and cement	2,912
Salt	800
Petroleum	465
Railroad iron, iron and steel rails	2
Pig and bloom iron	179
Other iron and castings	1,112
Ores	28
Stone, brick and sand	3,723
Manufactures,—articles shipped from point of production	844
Merchandise and other articles not enumerated above	65,211
Total forwarded	158,323

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Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	47,504	6.89
Flour	9,339	1.35
Provisions (beef, pork, lard, etc)	6,440	.93
Animals	10,315	1.49
Other agricultural products	20,505	2.98
Lumber and forest products	128,689	18.66
Coal	293,239	42.51
Plaster, lime and cement	5,091	.74
Salt	1,959	.28
Petroleum	10,305	1.49
Railroad iron, iron and steel rails	2,483	.36
Pig and bloom iron	12,817	1.86
Other iron and castings	6,192	.90
Ores	2,148	.31
Stone, brick and sand	28,851	4.18
Manufactures,—articles shipped from point of production	2,328	.34
Merchandise and other articles not enumerated above	101,621	14.73
Total tons carried	689,826	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company; fixed sum per month; general express business; freight taken at depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

156 miles, Western Union Telegraph Company.
190 miles, Edison Mutual Telegraph Company.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

May 9, Unknown man, Samaria. Walking on track; carelessness.
September 15, Miss Mattie Belden, Battle Creek. Horse ran into engine; accidental.

INJURED.

April 2, Small boy, Battle Creek. Stealing a ride.
June 18, Wm. Owens, car repairer, Marshall. Grinding chisel; carelessness.
July 7, Peter Thater, car repairer, Marshall. Struck by engine; carelessness.
October 10, F. Burdo, brakeman, Tecumseh. Fell from car; accidental.
November 17, J. B. Cooper, brakeman, Beadle Lake. Coupling; carelessness.
December 11, L. Brumbaugh, brakeman, Marshall. Coupling; carelessness.
December 23, H. Kerr, yard helper, Marshall. Coupling; carelessness.
December 26, J. E. Thompson, yard master, Marshall. Coupling; carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					4	
Derailments						
Falling from trains					1	
Frogs						
Getting on and off trains						
Highway crossings			1			
Miscellaneous					2	
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks			1			
Total			2		7	1

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SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	2
Number of persons injured during the year	8
Number of casualties purely accidental	2
Number resulting from lack of caution, carelessness, or misconduct	8
Trespassers and tramps killed or injured	2

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		3	
Conductors			
Engineers			
Firemen			
Laborers			
Shopman		2	
Yardmen		2	
Not classified above			
Total		7	

STATE OF OHIO, } ss.
COUNTY OF LUCAS. }

F. B. Drake, general manager, and W. F. Booth, acting auditor, of the Cincinnati, Jackson & Mackinaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, F. B. DRAKE.
W. F. BOOTH.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[L. S.] B. A. HAYES,
Notary Public, Lucas Co., Ohio.

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ANNUAL REPORT

OF THE

CHICAGO & WEST MICHIGAN RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Vice President, EUGENE V. R. THAYER, Boston, Mass.
Secretary, CHARLES MERRIAM, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, CHARLES MERRIAM, Boston. Mass.
General Manager, CHAS. M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, P. CONLEY, Holland, Mich.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.
Assistant Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, F. A. NIMS, Muskegon, Mich.

DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
F. H. DAMON, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
C. F. ADAMS, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
A. H. HARDY, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.

Terms expire April 19, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—October 1, 1881.

Number of stockholders at date of last electon	626
Number of stockholders in Michigan at same date	5
Amount of full paid stock held in Michigan at same date	$7,600

Date of annual meeting of stockholders—Third Wednesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$1,757,552 70
Total expenses, including taxes	$1,231,799 70	
Net income		$525,753 00
Interest on funded debt	$272,832 05	
Interest on unfunded debt	2,819 08	
Balance applicable to dividends		$250,601 87
Dividends declared (3½%)	$232,337 00	
Balance for the year		$18,264 87
Balance (profit and loss) last year		366,950 94
Balance forward to next year		$385,215 81

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$6,800,000 00
Par value of shares		$100 00	
Number of shares issued	67,332		
Amount paid in on common			$6,733,200 00
Amount paid in on shares not issued, number	636		63,600 00
Total amount paid in, as per books of the company			$6,796,800 00
Paid in per mile of road owned by company (miles, 481.5)			$14,115 88

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue	Rate of interest.	When due.	Where payable.	Amount outstanding.
Grand Rapids, Newaygo & Lake Shore R. R., 2d division, 1st mortgage bonds on 10 miles of road, Newaygo to White Cloud, Mich.	7%	June 1, 1905	Union Trust Company, New York City	$24,000 00
Chicago & West Michigan R'y Co. m'tg on 481.5 miles of consolidated line, subject to the above described m'tgs.	5%	Dec. 1, 1921	Company's offices, Boston, Mass.	5,188,000 00
Total funded debt				$5,212,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction, For equipment, For real estate, For renewals, For miscellaneous, For current balances	To be paid from earnings and sale of bonds	$2,411,765 74
Total unfunded debt		$2,411,765 74

RECAPITULATION.

Total funded debt	$5,212,000 00
Total unfunded debt	2,411,765 74
Total debt liabilities	$7,623,765 74
Amount of debt liabilities per mile of road (481.5 miles)	$15,833 86
Total amount of stock and debt	14,420,565 74
Stock and debt per mile of road (481.5 miles)	29,949 25

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GENERAL BALANCE SHEET.—Dr.

Construction account		$10,788,837 07
Equipment account		1,472,021 65
Other investments:		
C. & W. M. R'y stock	$95,021 80	
Muskegon Lake R. R. stock	33,600 00	
Muskegon Car Co.	15,904 98	
West Michigan Park Association bonds	6,000 00	
		150,526 28
Cash items:		
Cash	$76,488 10	
Bills receivable	108,100 00	
Due from agents	34,788 09	
		219,376 19
Other assets:		
Materials and supplies	$70,172 47	
Debit balances from companies and individuals	1,451,497 89	
Subscribers to blocks	658,350 00	
		2,180,020 36
Total		$14,805,781 55

GENERAL BALANCE SHEET.—Cr.

Capital stock		$6,796,800 00
Funded debt		5,212,000 00
Unfunded debt:		
Interest unpaid	$29,446 67	
Dividends unpaid	9 00	
Notes payable	450,000 00	
Vouchers and accounts	338,670 87	
Other liabilities:		
Advance payments of subscriptions	19,000 00	
Receipts for blocks	1,539,000 00	
Net traffic balances due other companies	32,243 59	
Miscellaneous	395 61	
G. R., N. & L. S. 8% 1st mortgage bonds due (not presented)	3,000 00	
		2,411,765 74
Profit and loss or income accounts		385,215 81
Total		$14,805,781 55

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased—October 1, 1881.	
Original cost to present company of road and equipment	$8,578,480 84
Amount expended since purchase, account of construction	2,746,393 99
Amount expended since purchase, account of equipment	931,033 89
Total cost to date of report	$12,255,858 72
Average cost per mile of road, not including sidings (481.5 miles)	$25,453 50
Proportion of cost for Michigan	11,378,781 21

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$44,325 79
New buildings	5,441 93
New fences	482 36
New locomotives	16,498 70
New cars	64,408 87
Total	$131,157 65
Total charges to property account as above	$131,157 65
Property sold and credited	110,000 00
Net addition to property account	$21,157 65

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$569,825 12	
Through fares	16,138 13	
Total passenger fares	$585,963 25	
Express and baggage	24,377 18	
Mails	40,061 16	
Other sources	1,300 00	
Total passenger department earnings		$651,701 59
Proportion for Michigan	$605,060 59	
Per train mile	76	
Per mile of road	1,353 48	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$1,084,088 87	
Through traffic	20,278 81	
Total traffic	$1,104,367 68	
Other sources	1,483 43	
Total freight department earnings		$1,105,851 11
Proportion for Michigan	$1,026,707 55	
Per train mile	1 47	
Per mile of road	2,296 68	
Total transportation earnings		$1,756,252 70
Transportation earnings per mile of road	$3,647 46	
Transportation earnings per train mile	1 18	
Miscellaneous receipts from operation account, other than for transportation, as follows:		
From other sources		1,300 00
Total earnings from operation of road		$1,757,552 70
Total earnings per mile of road	$3,650 16	
Total earnings per train mile	1 18	
Proportion of taxable earnings for Michigan	1,631,768 14	
Total taxable earnings per mile of road in Michigan	3,650 16	
Total income from all sources		$1,757,552 70
Proportion of income for Michigan		$1,631,768 14

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$150,964 06
Renewals of rails	85,694 68
Renewals of ties	27,930 28
Repairs of bridges, including culverts and cattle guards	32,573 91
Repairs of fences, road crossings and signs	26,724 81
Repairs of buildings	28,186 64
Total	$332,073 78

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$62,087 61
Repairs of passenger cars	44,894 68
Repairs of freight cars	66,766 73
Total	$173,749 02

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$140,101 78
Water supply	8,523 41
Oil and waste	9,940 71
Locomotive service	126,977 90
Passenger train service	36,876 11
Passenger train supplies	2,863 87
Mileage of passenger cars	3,720 13
Freight train service	55,725 02
Freight train supplies	1,462 53

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Mileage of freight cars	$5,871 28
Telegraph expenses (maintenance and operating)	26,945 49
Damage and loss of freight and baggage	1,990 43
Damages to property and cattle	4,736 76
Personal injuries	17,861 75
Agents and station service	139,789 66
Station supplies	5,075 66
Total	$576,219 93

GENERAL EXPENSES.

Salaries of the general officers of the company	$26,510 68
Salaries of clerks in general offices	32,365 60
Law expenses	7,487 47
Insurance	4,615 42
Stationery and printing	14,111 57
Outside agencies and advertising	30,224 71
Contingencies	5,706 98
Taxes	40,148 50
Total	$149,756 97

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	26.96	$332,073 78
Maintenance of motive power and cars	14.10	173,749 02
Conducting transportation	46.78	576,219 93
General expenses, including taxes	12.16	149,756 97
Total operating expenses and taxes	100.00	$1,231,799 70

Operating expenses and taxes per mile of road	$2,555 25
Operating expenses and taxes per train mile run for trains earning revenue, 1,492,449 miles	83
Proportion of operating expenses and taxes for Michigan	1,143,642 24
Percentage of expenses to earnings	70.09
Net earnings per mile of road	1,091 91
Net earnings per train mile	35

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
December 3, 1883.

MAIN LINE.

	Miles
In Michigan, from Indiana state line to Traverse City	266.14
In Indiana, from Michigan state line to LaCrosse	34.46
Total length completed	300.60

BRANCHES.

Allegan to Pentwater	98.3
Big Rapids Junction to Big Rapids	51.5
Mears to Hart	3.3
Brookings to West Troy	3.9
Muskegon to Kirk's Junction	11.9
Pickands to Fruitport	1.3
Muskegon to Port Sherman	5.6
Lilley Junction to Sissons	2.4
Muskegon to North Horn Track	2.2

Total length of branches owned by company	180.90
Total length of branches owned by company in Michigan	180.90
Total length of road belonging to this company	481.50
Total length of road belonging to this company in Michigan	447.04
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	167.35
Aggregate length of tracks in Michigan belonging to this company, computed as single track	614.39

Gauge of track, 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	9	856
Stone	1	20
Iron bridges	6	1,906
Combination bridges	4	689
Wooden trestles	185	21,487
Total	205	24,958

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Draw Bridges in Michigan.

How many on your line? 5

Where located, when built, and length of draw span:

1.	St. Joseph, built 1889	234
2.	New Richmond, built 1883	60
3.	Grand Rapids, built 1882	168
4.	Muskegon, built 1891	46
5.	Montague, built 1889	40

Character of structure:
Nos. 1 and 2, through trusses, two openings; No. 3, Howe truss, 1 opening; No. 4, deck girder, 1 opening; No. 5, truss beam, 1 opening.

Material of which constructed:
Nos. 1 and 4, iron; others iron and wood.

Height above water, and depth of water under bridge:
No. 1, 18 ft.—15 ft.; No. 2, 20 ft.—16 ft.; No. 3, 13 ft.—8 ft; No. 4, 7½ ft.—4 ft.; No. 5, 6½ ft.—6 ft.

How swung, by engine or hand power:
By hand power.

Approaches straight or curved:
Nos. 1, 2 and 3, curved; Nos. 4 and 5, straight.

Do you require all trains to come to full stop before crossing a draw, and how are they signalled?
Yes; and flagged by watchmen.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Toledo & South Haven R. R. at Hartford.
Michigan Central R. R. at Grand Junction.
Lake Shore & Michigan Southern R'y at Grandville.
Grand Rapids & Indiana R. R. at Muskegon, Fruitport Junction, Godfrey's, Mill Creek, and W. Grand Rapids.
Frankfort & South Eastern R. R. at Thompsonville.
Manistee & North Eastern R. R. at Manistee Crossing and Bear Creek.
Peters Log Road at Peters.
Detroit, Grand Haven & Milwaukee R'y at D., G. H. & M. Junction.
Toledo, Saginaw & Muskegon R'y at Sparta.
Flint & Pere Marquette R. R. at Baldwin.
Detroit, Lansing & Northern R. R. at Grand Rapids.

What railroads cross your road either over or under your grade in this State, and where?
Over:
None.
Under:
Michigan Central R. R. at 1½ miles south of New Buffalo.

At what crossings are interlocking and derailing switches in operation?
Frankfort & South Eastern at Thompsonville.
Grand Rapids & Indiana at Muskegon, Godfreys, W. Grand Rapids.
Manistee & North Eastern at Manistee Crossing and Bear Creek.
Peters Log Road at Peters.

What pattern or patterns have you adopted?
Gravitt.

Number of crossings of highways at grade in this State	512
Number of crossings of highways at grade in this State at which there are gates or flagmen	26
Number of crossings of highways over or under railroad (over 12, under 13)	25
Number of highway bridges 18 feet above track	11
Number of highway bridges less than 18 feet above track (over a side track)	1

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Hart guards and blocked with plank.

Stations.

Number of stations on whole line	114
Same in Michigan	108

Employés.

Number persons regularly employed on all roads operated by company, including officials.	2,103
Same in Michigan	2,047

Classify your employés as per following list:	Number.
Baggagemen	17
Brakemen	149
Conductors	78
Engineers	71
Firemen	79
Laborers	852
Shopmen	155
Yardmen	108
Others	543

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	814
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:	
Oceana and Lake counties	9

Road Bed and Track.

Number of track sections in Michigan	94
Average length of sections (miles)	5.12
Average number of men in each section gang	3
Number of new ties put in whole line during the year	196,411
Number of new ties put in track in Michigan	184,435
Average number of new ties per mile of road	409
New rails put in track, steel (tons 3,922 $\frac{640}{2240}$) miles, 41.6.	
Total miles of track laid with new rails	41.6

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	2,300
Timber culverts replaced during the year:	
With iron pipe,—number	2
With sewer pipe,—number	13
With timber,—number	1

New bridges built during the year:

Location.	Kind.	Material.	Month built.	Feet in length.
26.6. New Buffalo	Through truss	Iron	October	132
78.4. Watervliet	Pile trestle	Wood	May	98
88.4. McDonald	Pile	"	June	14
91.5. Bangor	Pile trestle	"	Oct. and Nov.	239
91.5. Bangor	Deck girder	Iron	" "	30
92.1. Bangor	Pile trestle	Wood	December	132
135.7. Vriesland	" "	"	January	169
159.4. Mill Creek	" "	"	September	56
162.3. Alpine	" "	"	October	86
165.5. Alpine	" "	"	"	45½
166.5. Sparta	" "	"	"	43½
A57.7. Muskegon	Deck girder draw	Iron	July	46
79. Watervleit	Arch	Stone	Nov. and Dec.	20

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	50	$175,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	19	47,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	1	1,000 00
Total	70	$223,500 00
Number of passenger cars—6 wheel, including official cars	47	$117,500 00
Number of express and baggage cars	26	39,000 00
Number of box freight cars	1,052	263,000 00
Number of stock cars	25	6,250 00
Number of platform cars	1,205	210,875 00
Number of conductors' way cars	27	5,400 00
Other cars as follows: Log cars, 24, $100.00 each; W. M. Equip. Co. and L. L., 200, $250.00 each; tool cars, 3, $100.00 each; excavators, 2, $500.00 each; pile drivers, 1, $300.00 each; snow plows, 5, $500.00 each; painter's car, 1, $100.00; carpenter's car 1, $100.00.	237	56,700 00
Total	2,619	$922,225 00

Number of locomotives equipped with power brakes	67
Number of passenger train cars equipped with power brakes	63
Number of freight cars equipped with power brakes	300

What patterns of power brakes have you in use and number of locomotives and cars with each?
Locomotives, 67,—American Steam Brake, 10; Westinghouse, 56; New York Air Brake, 1. Cars, 363,—Westinghouse.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

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What pattern or patterns have you adopted for use?
Gould.

How are your passenger cars heated?
Steam from locomotives.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	796,010
Miles run by freight trains during the year	696,439
Total mileage of trains earning revenue	1,492,449

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	9,037		
Number of local passengers carried	839,852		
Total number of passengers carried	848,889		
Total passenger mileage or passengers carried one mile	25,140,381		
Average distance traveled by each passenger		2,961	
Average amount received from each passenger			$0 69.02
Average rate of fare per mile for through passengers			02.27
Average rate of fare for local passengers			02.332
Average rate of fare per mile for all passengers			02.33

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	12,922		
Number of tons of local freight carried	1,258,536		
Total tons of freight carried	1,271,458		
Total mileage of through freight		1,802,748	
Total mileage of local freight		83,765,449	
Total freight mileage or tons carried one mile		85,568,197	
Average ton haul for through freight		139.50	
Average ton haul for local freight		66.55	
Average ton haul for all freight		67.29	
Average amount received for each ton haul			$0 86.97
Average rate per ton per mile received for through freight			01.124
Average rate per ton per mile received for local freight			01.296
Average rate per ton per mile received for all freight			01.292

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	22,577
Flour	15,815
Provisions (beef, pork, lard, etc.)	1,907
Animals	7,093
Other agricultural products	127,516
Lumber and forest products	769,473
Coal	19,707
Plaster, lime and cement	16,260
Salt	2,935
Petroleum	3,075
Railroad iron, iron and steel rails	1,336
Pig and bloom iron	14,043
Other iron and castings	6,735
Stone, brick and sand	45,392
Manufactures—articles shipped from point of production	32,646
Merchandise and other articles not enumerated above	48,767
Total forwarded	1,135,177

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	29,720	2.34
Flour	16,601	1.31
Provisions (beef, pork, lard, etc.)	1,909	.16
Animals	7,319	.58
Other agricultural products	130,371	10.25
Lumber and forest products	773,962	60.87
Coal	114,966	9.04
Plaster, lime and cement	17,293	1.36
Salt	2,953	.24
Petroleum	5,351	.42
Railroad iron, iron and steel rails	7,402	.58
Pig and bloom iron	14,498	1.14
Other iron and castings	10,271	.80
Stone, brick and sand	46,418	3.65
Manufactures—articles shipped from point of production	34,080	2.68
Merchandise and other articles not enumerated above	58,344	4.58
Total tons carried	1,271,458	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run over your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company pays seven cents per ton per mile for all freight it carries on the line except for small fruits, which are carried at an agreed rate. The messengers are carried free. It does a general express business, and takes its own freight at the railway company's depot.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?
831 miles. To Western Union Telegraph Co.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Sleeping Car Co., New York, New York; $6,130.30.

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Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Armour's Refrigerator Line	Chicago, Ill.	$70 19
Anglo-American Refrigerator Car Co.	Chicago, Ill.	14 73
Arms Palace Horse Car Co.	Chicago, Ill.	12 80
American Refrigerator Transit Co.	St. Louis, Mo.	9 03
Anstell Refrigerator Car Line	Atlanta, Ga.	3 70
Atlanta Stone, Coal & Lumber Co.	Atlanta, Ga.	11
*Blue Line	Rochester, N. Y.	2,646 57
Brill, J. G. & Co.	Philadelphia, Pa.	3 87
Barrett, L. E. & Co.	Chicago, Ill.	1 71
Burton's Stock Car Co.	Chicago, Ill.	66
*Canada Southern Line	Rochester, N. Y.	831 88
California Fruit Transportation Co.	Chicago, Ill.	105 15
*Columbus & Hocking Coal & Iron Co.	Columbus, O.	52 76
Chicago Refrigerator Car Co.	Lafayette, Ind.	11 39
Chicago & Ohio Coal & Car Co.	Chicago, Ill.	6 12
Craig Oil Co.	Toledo, O.	5 04
Canadian Pacific Dispatch	Boston, Mass.	4 75
Chicago Steel Works	Chicago, Ill.	43
*Empire Line	Philadelphia, Pa.	74 17
*Erie Dispatch	Indianapolis, Ind.	14 76
Eagle Consolidated Refining Co.	Cleveland, O.	1 59
Ellsworth, J. W., & Co.	Chicago, Ill.	1 15
Frazer Lubricator Co.	Chicago, Ill.	7 14
*Great Eastern Line	Montreal, Canada	199 23
Hilt, Jas., Ice Co.	Indianapolis, Ind.	89 24
Hicks Stock Car Co.	Chicago, Ill.	18
International Packing Co.	Chicago, Ill.	1 72
Kilbourne, S., & Co.	Grand Haven, Mich.	89 80
Keystone Palace Horse Car Co.	Chicago, Ill.	2 89
Kanawha Valley Rolling Stock Co.	Chicago, Ill.	1 21
*Merchants' Dispatch Transportation Co.	New York, N. Y.	842 77
Midland line	Buffalo, N. Y.	256 78
Michigan Salt Line	East Saginaw, Mich.	1 76
Menasha Wooden Ware Co.	Chicago, Ill.	1 65
Morris, Nelson & Co.	Chicago, Ill.	1 50
Missouri & Illinois Rolling Stock Co.	Springfield, Ill.	03
*National Despatch Line	St. Albans, Vt.	224 80
Pullman Palace Car Co.	Chicago, Ill.	6 90
*Pittsburgh & Toledo Dispatch	Allegheny, Pa.	4 01
Red Line	Buffalo, N. Y.	492 39
Rend, W. P.	Chicago, Ill.	88
Rend, W. P., & Co.	Chicago, Ill.	88
Swift Refrigerator Line	Chicago, Ill.	156 97
Southern Iron Car Line	Atlanta, Ga.	16 88
Standard Oil Co.	New York, N. Y.	8 36
Somer's Coal Co.	Columbus, O.	2 69
Sun Oil Line Co.	Toledo, O.	1 89
St. Louis Refrigerator Car Co.	St. Louis, Mo.	1 71
*Union Line	Pittsburgh, Pa.	301 94
Union Tank Line	New York, N. Y.	190 69
Union Refrigerator Transit Co.	St. Louis, Mo.	33 20
West Michigan Equipment Co. & L. L.	Grand Rapids, Mich.	2,218 23
White Line	Buffalo, N. Y.	339 48
Wells, T. E., & Co.	Chicago, Ill.	70 94

The West Michigan Equipment Co. and Lumber Line cars are operated by the C. & W. M. R'y Co. under lease.

Do not know whether lines of cars checked * are owned by railroad companies or private individuals.

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REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

June 1, D. Waters, brakeman, Otia. Coupling; company not responsible.
August 15, C. Bos, citizen, Holland. Struck by train at crossing; company not responsible.
August 29, P. J. Ekman, car repairer, Grand Rapids. Struck by lever of coupler; company not responsible.
September 28, D. Paul, citizen, Zeeland. Attempting to move car on track in front of moving train; company not responsible.
October 14, J. Day, citizen, Muskegon. Lying on track; company not responsible.
October 16, A. Ellwell, switchman, Holland. Coupling; company not responsible.
November 9, R. Locher, citizen, Granville. Struck by train while walking on track; company not responsible.
December 6, T. O'Brien, citizen, Mill Creek. Run over by train while walking or lying on track at night; company not responsible.
December 22, Unknown citizen, Holland. Found dead on track; company not responsible.

INJURED.

March 16, D. Holmes, citizen, White Cloud. Collision; accidental.
March 16, B. Priest, citizen, White Cloud. Collision; accidental.
March 16, Emma Leaman, citizen, White Cloud. Collision; accidental.
March 16, Elizabeth Hyerstag, citizen, Muskegon. Collision; accidental.
March 16, Mrs. D. B. King, citizen, Muskegon. Collision; accidental.
May 16, J. Whalen, brakeman, Whitehall. Staking car; accidental.
May 21, B. Vanderward, citizen, Holland. Trespasser; stealing ride.
June 13, M. Cristenson, trackman, Mears. Slipped under train; accidental.
June 14, J. Patterson, brakeman, Fred Kelly, engineer, A. DeVries, fireman, Camp 8, Otia. Collision through misunderstanding orders.
June 17, T. Burns, citizen, Grand Rapids. Trespasser; lying on track.
June 22, W. Swigert, citizen, St. Joseph. Trespasser; stealing ride.
July 8, Mrs. Anderson, citizen, Muskegon. At street crossing; carelessness.
August 29, S. Sharrick, citizen, Bangor. Trespasser; stealing ride.
September 6, Mrs. D. VanAuken, citizen, Hartford. Struck by train at crossing.
September 6, Kate McHannock, citizen, Hartford. Struck by train at crossing.
October 31, C. Coon, citizen, Newaygo. Catching on moving train.
November 2, W. Reagan, citizen, Grand Rapids. Being chased for misdemeanor, run into train.
November 5, J. Steiner, citizen, Muskegon. Catching on moving train.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions				5	8	
Coupling cars		2				
Derailments						
Falling from trains						
Frogs						
Getting on and off trains						
Highway crossings			2			3
Miscellaneous		1			2	1
Overhead obstructions						
Trespassers on trains						5
Trespassers on tracks			4			1
Total		3	6	5	5	10

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	9
Number of persons injured during the year	20
Number of casualties purely accidental	12
Number resulting from lack of caution, carelessness or misconduct	7
Trespassers and tramps killed or injured	10

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	2	3
Conductors			
Engineers		1	1
Firemen		1	1
Laborers		1	1
Shopmen			
Yardmen	1		1
Not classified above	1		1
Total	3	5	8

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Chicago & West Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, CHAS. M. HEALD.
U. B. ROGERS.

Subscribed and sworn to before me this 4th day of April, A. D., 1892.
[L. S.]

ERNEST W. WELLER,
Notary Public. Kent Co., Mich.

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ANNUAL REPORT

OF THE

DETROIT, LANSING & NORTHERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary, CHARLES MERRIAM, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, CHARLES MERRIAM, Boston, Mass.
General Manager, CHARLES M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, F. M. DRAKE, Ionia, Mich.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.
Assistant Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, CHARLES B. LOTHROP, Detroit, Mich.

DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
CHARLES F. ADAMS, Boston, Mass.
JOHN A. BURNHAM, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
CHARLES L. YOUNG, Boston, Mass.
A. H. HARDY, Boston, Mass.
GEORGE WHITNEY, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.

Terms expire May 11, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—December 26, 1876.

Number of stockholders at date of last election	461
Number of stockholders in Michigan at same date	2
Amount of full paid stock held in Michigan at same date	$13,000 00

Date of annual meeting of stockholders,—Second Wednesday of May.
Fiscal year of company ends December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$1,254,099 74
Total expenses, including taxes	$878,653 31	
Net income		$375,446 43
Interest on funded debt	$225,540 00	
Interest on unfunded debt	1,372 21	
Rentals of buildings, tracks, etc.	89,675 00	
Balance applicable to dividends		$58,859 22
Balance for the year		$58,859 22
Balance (profit and loss) last year		131,758 30
Balance forward to next year		$190,617 52

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$4,410,000 00
Par value of shares	$100 00		
Number of shares issued	43,356		
Amount paid in on common		$1,825,600 00	
Amount paid in on preferred		2,510,000 00	
Total amount paid in as per books of the company			$4,335,600 00
Paid in per mile of road owned by company—miles 221.57			$19,567 68

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Detroit, Lansing & Northern R. R., 1st m'tg bonds	7 %	1907	Boston, Mass.	$2,672,000 00
Ionia & Lansing R. R. Co., 1st m'tg bonds	5 %	1899	NewYork City	770,000 00
Total funded debt				$3,442,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction For equipment For real estate For renewals For miscellaneous For current balances	To be paid from earnings	$482,441 58
Total unfunded debt		$482,441 58

RECAPITULATION.

Total funded debt	$3,442,000 00
Total unfunded debt	482,441 58
Total debt liabilities	$3,924,441 58
Amount of debt liabilities per mile of road (221.57 miles)	$17,711 97
Total amount of stock and debt	8,260,041 58
Stock and debt per mile of road (221.57 miles)	37,279 60

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GENERAL BALANCE SHEET.—Dr.

Construction account	$6,857,366 65	
Equipment account	655,109 07	
Other investments:		
Construction and equipment G. R., L. & D. R. R.	1,270,646 00	
Construction and equipment S. & W. R. R.	568,335 65	
		$9,351,457 87
Cash items:		
Cash	$185,281 43	
Bills receivable	103,500 00	
Due from agents	15,770 11	
		304,551 54
Other assets:		
Materials and supplies	$29,947 86	
Sinking funds	246,090 61	
Debit balances from companies and individuals	225,041 22	
Common stock scrip	71 00	
		501,150 19
Total		$10,157,159 10

GENERAL BALANCE SHEET.—Cr.

Capital stock	$4,335,600 00	
Funded debt	3,442,000 00	
Capital stock G. R., L. & D. R. R.	28,000 00	
Capital stock S. & W. R. R.	4,500 00	
Funded debt G. R., L. & D. R. R.	1,108,000 00	
Funded debt S. & W. R. R.	566,000 00	
		$9,484,100 00
Unfunded debt:		
Interest unpaid	$152,619 17	
Notes payable	126,000 00	
Vouchers and accounts	178,041 44	
Other liabilities:		
Net traffic balance due other companies	25,780 97	
		482,441 58
Profit and loss or income accounts		190,617 52
Total		$10,157,159 10

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	$7,512,475 72
Average cost per mile of road, not including sidings (221.57 miles)	33,905 65
Proportion of cost for Michigan	7,512,475 72

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$455 00
New cars	22,134 00
Total	$22,589 00
Total charges to property account as above	$22,589 00
Property sold and credited	15,431 42
Net addition to property account	$7,157 58

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$443,829 96	
Through fares	84,153 11	
Total passenger fares	$527,983 07	
Express and baggage	16,691 41	
Mails	36,310 45	
Total passenger department earnings		$580,984 93
Proportion for Michigan	$580,984 93	
Per train mile	83	
Per mile of road	1,794 94	

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FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$351,615 43	
Through traffic	107,115 58	
Total traffic	$458,731 01	
Other sources	1,538 66	
Total freight department earnings		$460,269 57
Proportion for Michigan	$460,269 57	
Per train mile	1 45	
Per mile of road	2,039 88	
Total transportation earnings		$1,241,254 50
Transportation earnings per mile of road	$3,884 82	
Transportation earnings per train mile	1 08	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph	$7,389 74	
From other sources	5,455 50	
		12,845 24
Total earnings from operation of road		$1,254,099 74
Total earnings per mile of road	$3,874 50	
Total earnings per train mile	1 09	
Proportion of taxable earnings for Michigan	1,254,099 74	
Total taxable earnings per mile of road in Michigan	3,874 50	
Total income from all sources		$1,254,099 74
Proportion of income for Michigan		$1,254,099 74

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$110,722 86
Renewals of rails	17,756 78
Renewals of ties	24,142 38
Repairs of bridges, including culverts and cattle guards	6,451 29
Repairs of fences, road crossings and signs	13,136 59
Repairs of buildings	24,476 40
Total	$196,686 30

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$46,442 66
Repairs of passenger cars	41,305 06
Repairs of freight cars	35,897 10
Total	$123,644 82

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$90,932 47
Water supply	4,746 11
Oil and waste	8,336 45
Locomotive service	85,239 24
Passenger train service	29,756 12
Passenger train supplies	4,573 79
Mileage of passenger cars	506 21
Freight train service	31,857 97
Freight train supplies	3,083 57
Mileage of freight cars	11,557 27
Telegraph expenses (maintenance and operating)	18,212 67
Damage and loss of freight and baggage	860 35
Damages to property and cattle	3,320 82
Personal injuries	1,044 30
Agents and station service	98,977 33
Station supplies	4,570 20
Total	$391,560 45

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GENERAL EXPENSES.

Salaries of the general officers of the company	$20,674 52
Salaries of clerks in general offices	23,327 60
Law expenses	11,406 80
Insurance	3,343 28
Stationery and printing	9,513 90
Outside agencies and advertising	10,095 25
Contingencies	58,722 20
Taxes	29,678 19
Total	$166,761 74

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	22.38	$196,686 80
Maintenance of motive power and cars	14.07	123,644 82
Conducting transportation	44.56	391,560 45
General expenses, including taxes	18.99	166,761 74
Total operating expenses and taxes	100.00	$878,653 31

Operating expenses and taxes per mile of road	$3,714 57
Operating expenses and taxes per train mile run, for trains earning revenue, 1,151,000 miles,	76
Proportion of operating expenses and taxes for Michigan	878,653 31
Percentage of expenses to earnings	70.06
Net earnings per mile of road	1,159 93
Net earnings per train mile	33

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Detroit to Howard City, August, 1871.
From Stanton Junction to Big Rapids, July, 1880.
From Kiddville to Belding, 1872.
From Alma to Howard City, August, 1886.
From Grand Ledge to Grand Rapids, August, 1888.
From Oakdale Park to Reed's Lake, August, 1888.

MAIN LINE.

	Miles.
In Michigan, from Detroit to Howard City	156.60
Total length completed	156.60

BRANCHES.

Belding, from Belding to Kiddville	1.67
Stanton, from Stanton Junction to Big Rapids	63.30
Total length of branches owned by company	64.97
Total length of branches owned by company in Michigan	64.97
Total length of road belonging to this company	221.57
Total length of road belonging to this company in Michigan	221.57
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	77.95
Aggregate length of tracks in Michigan belonging to this company computed as single track	299.52

Gauge of track 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total miles.	In Michigan.
Detroit to West Detroit—Michigan Central	3.00	
Lansing to North Lansing—Michigan Central	1.00	
Alma to Howard City—Saginaw & Western	42.57	
Grand Rapids to Grand Ledge—Grand Rapids, Lansing & Detroit	53.01	
Oakdale Park to Reed's Lake—Grand Rapids, Lansing & Detroit	2.53	
Total	102.11	102.11
Total miles operated by the company	323.68	323.68

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	7	603
Iron bridges	24	2,652
Wooden trestles	57	4,541
Total	88	7,796

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Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and in what locality?
Flint & Pere Marquette R. R. at Plymouth.
Michigan Air Line R. R. at South Lyon.
Toledo, Ann Arbor & North Michigan R'y at Howell Junction and Alma.
Chicago & Grand Trunk R'y at Trowbridge.
Detroit, Grand Haven & Milwaukee R'y at Ionia.
Toledo, Saginaw & Muskegon R. R. at Greenville and Sheridan.
Grand Rapids & Indiana R. R. at Grand Rapids and Big Rapids.
Lowell & Hastings R. R. at Elmdale.
Michigan Central Railroad at Grand Rapids.
Chicago & West Michigan R'y at Grand Rapids.

What railroads cross your road either over or under your grade in this State and where?
None.

At what crossings are interlocking and derailing switches in operation?
Chicago & Grand Trunk at Trowbridge.
Toledo, Ann Arbor & North Michigan at Howell Junction.
Lowell & Hastings, at Elmdale.
Toledo, Saginaw & Muskegon, at Greenville and Sheridan.
Michigan Central at Grand Rapids.
Grand Rapids & Indiana at Grand Rapids.

What pattern or patterns have you adopted?
Union Switch & Signal Co. and Gravett.

Number of crossings of highways at grade in this State	439
Number of crossings of highways at grade in this State at which there are gates or flagmen	8
Number of crossings at which there are electric or automatic signals	1

What pattern or patterns in use?
Pennsylvania Steel Co. (electric).

Number of crossings of highways over or under railroad (over 8, under 11)	19
Number of highway bridges 18 feet above track	8
Number of highway bridges less than 18 feet above track	None.
Have safety guards been erected at overhead obstructions?	Yes
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes

How are they treated?
Hart guard and blocked with plank.

Stations.

Number of stations on whole line	84
Same in Michigan	84

Employés

Number persons regularly employed on all roads operated by company, including officials	1,105
Same in Michigan	1,100

Classify your employés as per following list:

	Number.
Baggagemen	17
Brakemen	66
Conductors	42
Engineers	44
Firemen	47
Laborers	395
Shopmen	133
Yardmen	26
Others	330

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	646

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed: None.

Road Bed and Track.

Number of track sections in Michigan	65
Average length of sections (miles)	5.50
Average number of men in each section gang	3
Number of new ties put in whole line during the year	121,270
Number of new ties put in track in Michigan	121,270
Average number of new ties per mile of road	376

New rails put in track:
Steel (tons 1105 $\frac{180}{2240}$) miles, 11.6.

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Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	None.
Timber culverts replaced during the year	16
With iron pipe,—number	2
With sewer pipe,—number	13
With timber,—number	1
New bridges built during the year,—Number	2

Location.	Kind.	Material.	Month built.	Feet in length.
Fowlerville	Pile trestle	Wood	November	98
Salem	" "	"	May	70

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		38	$133,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		2	5,000 00
Total		40	$138,000 00
Number of passenger cars—8 wheel, including official cars		41	102,500 00
Number of express and baggage cars		22	33,000 00
Number of box freight cars		510	127,500 00
Number of stock cars		44	11,000 00
Number of platform cars		639	111,825 00
Number of conductors' way cars		27	5,400 00
Other cars as follows:			
Tool car	1		
Painters' car	1		
Kitchen car	1		
Tender and steam shovel	1		
Road train sleeper	1		
Road train dining car	1		
Excavator	1		
Carpenters' cars	2		
Bridge gang car	1		
		10	2,800 00
Total		1,293	$531,525 00

Number of locomotives equipped with power brakes	35
Number of passenger train cars equipped with power brakes	63
Number of freight cars equipped with power brakes	6

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Locomotives, 35—Eames vacuum, 1; Westinghouse automatic, 30; American steam, 4.
Cars, 69—Westinghouse automatic.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Gould.

How are your passenger cars heated?
Hot water heaters and steam from locomotives.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	696,897
Miles run by freight trains during the year	454,103
Total mileage of trains earning revenue	1,151.000

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	33,939		
Number of local passengers carried	725,825		
Total number of passengers carried	759,764		
Total passenger mileage, or passengers carried one mile	22,145,804		
Average distance traveled by each passenger		29.148	
Average amount received from each passenger			$0 69.498
Average rate of fare per mile for through passengers			02.367
Average rate of fare per mile for local passengers			02.387
Average rate of fare per mile for all passengers			02.363

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Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	71,720		
Number of tons of local freight carried	554,629		
Total tons of freight carried	626,349		
Total mileage of through freight	11,022,119		
Total mileage of local freight	37,401,629		
Total freight mileage, or tons carried one mile	48,423,748		
Average ton haul for through freight		153.89	
Average ton haul for local freight		67.43	
Average ton haul for all freight		77.32	
Average amount received for each ton haul			$1 05.186
Average rate per ton per mile received for through freight			00.971
Average rate per ton per mile received for local freight			01.474
Average rate per ton per mile received for all freight			01.153

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	47,641	7.61
Flour	21,108	3.37
Provisions (beef, pork, lard, etc.)	1,154	.18
Animals	20,080	3.21
Other agricultural products	37,671	6.01
Lumber and forest products	259,376	41.42
Coal	41,288	6.59
Plaster, lime and cement	6,256	1.00
Salt	9,501	1.52
Petroleum	5,290	.85
Railroad iron, iron and steel rails	1,843	.29
Pig and bloom iron	1,084	.17
Other iron and castings	9,716	1.55
Stone, brick and sand	84,872	13.55
Manufactures—articles shipped from point of production	19,635	3.13
Merchandise and other articles not enumerated above	59,784	9.55
Total tons carried	626,249	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?
The American Express Company. They handle their own freight.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
527 miles. D., L. & N. R. R. Co.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report:

Wagner Sleeping Car Co., New York, N. Y.	$20 29
Pullman Palace Car Co., Chicago, Ill.	18 72

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

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Name of company.	General office.	Amount paid.
American Refrigerator Transit Co.	St. Louis, Mo.	$87 69
Arms Palace Horse Car Co.	Chicago, Ill.	7 95
Armour's Refrigerator Line	Chicago, Ill.	4 05
Blue Line	Rochester, N. Y.	2,997 37
Burton Stock Car Co.	Chicago, Ill.	68
Canada Southern Line	Rochester, N. Y.	829 41
Canadian Pacific Dispatch	Boston, Mass.	28 63
Chicago Refrigerator Car Co.	Lafayette, Ind.	6 56
Cold Blast Transportation Co.	Kansas City, Mo.	4 88
Chicago Steel Works	Chicago, Ill.	4 62
California Fruit Transportation Co.	Chicago, Ill.	4 40
Crystal Refining Co.	Cleveland, Ohio	1 04
Empire Line	Philadelphia, Pa.	128 23
Erie Dispatch	Indianapolis, Ind.	13 42
Frazer Lubricating Co.	Chicago, Ill.	97
Great Eastern Line	Montreal, Canada	639 33
Iron Car Express Coal Line	Atlanta, Ga.	1 66
Kilbourne, Silas, & Co.	Grand Haven, Mich.	12 65
Live Poultry Transportation Co.	Chicago, Ill.	1 64
Merchants' Dispatch Transportation Co.	New York, N. Y.	1,281 57
Midland Line	Buffalo, N. Y.	35 50
Manhattan Oil Co.	Lima, Ohio	9 53
National Dispatch Line	St. Albans, Vt.	626 32
Paragon Refining Co.	Toledo, Ohio	12 80
Pittsburgh & Toledo Dispatch	Alleghany, Pa.	6 02
Paine's Brick Co.	Paines, Mich.	48
Rend, W. P.	Chicago, Ill.	6 69
Red Line	Buffalo, N. Y.	391 52
Southern Iron Car Line	Atlanta, Ga.	7 65
Somer's Coal Co.	Columbus, Ohio	5 61
Street's Western Stable Car Co.	Chicago, Ill.	2 59
Swift's Refrigerator Line	Chicago, Ill.	1 94
Union Tank Line	New York, N. Y.	177 23
Union Refrigerator Transit Co.	St. Louis, Mo.	7 62
Union Line	Pittsburgh, Pa.	99 72
West Michigan Equipment Co. & Lumber Line	Grand Rapids, Mich.	787 85
White Line	Buffalo, N. Y.	49 88
Wells & Clear Oil Co.	Lansing, Mich	8 41

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 12, Delia Cummings, citizen, Grand Rapids. Attempted to cross front of train; company not responsible.

January 14, F. Huntley, sectionman, Detroit. Struck by train while attempting to remove hand car from track: company not responsible.

January 28, S. Wagner, citizen, Detroit. Jumped from moving train; company not responsible.

March 18, Mrs. A. Jacobs, citizen, Brighton. Attempted to cross front of engine; company not responsible.

July 13, M. Morrison, citizen, E. Paris. Struck by train at crossing; company not responsible.

July 22, R. Charles, citizen, Brighton. Deaf man, struck by train while walking on track; company not responsible.

Aug. 29, L. O'Brien, citizen, Plymouth. Trespasser, attempting to steal a ride; company not responsible.

November 13, L. E. Caswell, switchman, Detroit. Coupling; company not responsible.

INJURED.

March 7, J. Gardner, citizen, Ionia. Struck by train while walking on track.

August 24, Mrs. D. Brookings, citizen, Lansing. Collision caused by throwing switch too soon.

August 24, Mrs. C. B. Collins, citizen, Lansing. Collision caused by throwing switch too soon.

August 24, J. Blanchard, brakeman, Lansing. Collision caused by throwing switch too soon.

September 25, N. Hebbard, citizen, Fowlerville. Stumbled and fell under train.

October 13, F. Thomas, citizen, Detroit. Crossing over standing train.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions				2	1	
Coupling cars		1				
Derailments						
Falling from trains						
Frogs						
Getting on and off trains	1					
Highway crossings			3			
Miscellaneous		1				1
Overhead obstructions						
Trespassers on trains			1			1
Trespassers on tracks			1			1
Total	1	2	5	2	1	3

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	8
Number of persons injured during the year	6
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness or misconduct	9
Trespassers and tramps killed or injured	4

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		1	1
Conductors			
Engineers			
Firemen			
Laborers	1		1
Shopmen			
Yardmen	1		1
Not classified above			
Total	2	1	3

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Detroit, Lansing & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

CHAS. M. HEALD.
U. B. ROGERS.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[L. S.]

ERNEST N. WELLER,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

GRAND RAPIDS, LANSING & DETROIT RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 12, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary, CHARLES MERRIAM, Boston, Mass.
Treasurer, CHARLES MERRIAM, Boston, Mass.
General Manager, CHARLES M. HEALD, Grand Rapids, Mich.

DIRECTORS.

H. H. HUNNEWELL, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
A. H. HARDY, Boston, Mass.
CHARLES L. YOUNG, Boston, Mass.
NATHANIEL THAYER, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire May 11, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—May 17, 1887.	
Number of stockholders at date of last election	8
Number of stockholders in Michigan at same date	1
Amount of full paid stock held in Michigan at same date	$100 00

Date of annual meeting of stockholders—The second Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich., and Boston, Mass.

REMARKS.

This road is leased and operated by the Detroit, Lansing & Northern Railroad Company.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$450,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	280		
Amount paid in on common			$28,000 00
Total amount paid in, as per books of the company			$28,000 00
Paid in per mile of road owned by company—miles, 55.54			$504 14

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, September 1, 1887	5%	Sept. 1, 1927	Boston, Mass.	$1,108,000 00
Total funded debt				$1,108,000 00

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UNFUNDED DEBT.

For construction and equipment, to be paid	$134,646 00
Total unfunded debt	$134,646 00

RECAPITULATION.

Total funded debt	$1,108,000 00
Total unfunded debt	134,646 00
Total debt liabilities	$1,242,646 00
Amount of debt liabilities per mile of road (55.54 miles)	$22,373 89
Total amount of stock and debt	1,270,646 00
Stock and debt per mile of road (55.54 miles)	22,878 03

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$55,400 00

Was it paid for the last year? Yes.
If interest is in default state the years and amounts as follows:
No default in interest.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$1,270,646 00
Average cost per mile of road (not included in sidings, 55.54 miles)	22,878 03
Proportion of cost of construction for Michigan	1,270,646 00

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
August, 1888.

MAIN LINE.

	Miles.
Length completed in Michigan, Grand Rapids to Grand Ledge	53.01
Total length completed	53.01

Branches.

Reed's Lake, from Oakdale Park to Reed's Lake	2.53
Total length of branches owned by company	2.53
Total length of branches owned by company in Michigan	2.53
Total length of road belonging to this company	55.54
Total length of road belonging to this company in Michigan	55.54
Aggregate length of sidings, spurs and other tracks not above enumerated	10.70
Same in Michigan	10.70
Aggregate length of tracks belonging to this company computed as single track	66.24
Same in Michigan	66.24

Gauge of track 4 feet 8½ inches.

STATE OF MASSACHUSETTS, }
COUNTY OF SUFFOLK. } ss.

Nathaniel Thayer, president, and Charles Merriam, secretary, of the Grand Rapids, Lansing & Detroit Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed, NATH'L THAYER, *President.*
[L. S. OF R. R.] CHAS. MERRIAM, *Secretary.*

Subscribed and sworn to before me this 8th day of April, A. D., 1892.
[L. S.]

F. H. DAMON,
Notary Public.

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ANNUAL REPORT

OF THE

SAGINAW VALLEY & ST. LOUIS RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIAL THAYER, Boston, Mass.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, JAS. E. HOWARD, Grand Rapids, Mich.
General Manager, CHARLES M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, F. M. DRAKE, Ionia, Mich.
Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, CHAS. B. LOTHROP, Detroit, Mich.

DIRECTORS.

H. H. HUNNEWELL, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
NATHANIEL THAYER, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
CHARLES L. YOUNG, Boston, Mass.
J. A. BURNHAM, Boston, Mass.
CHAS. F. ADAMS, Boston, Mass.
A. H. HARDY, Boston, Mass.
H. NEWCOMB, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
F. H. DAMON, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.

Terms expire second Wednesday in July, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—May 17, 1871.

Number of stockholders at date of last election	84
Number of stockholders in Michigan at same date	66
Amount of full paid stock held in Michigan at same date	$25,200 00

Date of annual meeting of stockholders—Second Wednesday in July.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

REMARKS.

This road is operated under lease by the Detroit, Lansing & Northern Railroad Company.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$93,595 77
Total expenses, including taxes	$71,461 44	
Net income		$22,134 33
Interest on funded debt	$35,680 00	
Rentals of buildings, tracks, etc.	7,000 00	
Balance for the year	$20,545 67	
Balance (profit and loss) last year	93,922 46	
Items not included in above, as follows:		
Miscellaneous income		$1,396 00
Balance forward to next year		113,073 13
	$114,468 13	$114,468 13

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$300,000 00
Par value of shares		$100 00	
Number of shares issued	2,553		
Amount paid in on common			$255,300 00
Amount paid in on shares not issued, number	95		9,504 01
Total amount paid in as per books of the company			$264,804 01
Paid in per mile of road owned by company (miles 35.50)			$7,459 27

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds	8%	May 1, 1902	New York City	$446,000 00
Total funded debt				$446,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction For equipment For real estate For renewals For miscellaneous	To be paid from earnings	$136,564 13
Total unfunded debt		$136,564 13

RECAPITULATION.

Total funded debt	$446,000 00
Total unfunded debt	136,564 13
Total debt liabilities	$582,564 13
Amount of debt liabilities per mile of road (35.50 miles)	$16,410 26
Total amount of stock and debt	847,368 14
Stock and debt per mile of road (35.50 miles)	23,869 52

GENERAL BALANCE SHEET.—Dr.

Construction account	$618,176 81	
Equipment account	87,037 00	
		$705,213 81

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Cash items:		
Cash	$2,685 66	
Due from agents	353 18	
		$3,038 84
Other assets:		
Debit balances from companies and individuals		26,043 36
Profit and loss		113,072 13
Total		$847,368 14

GENERAL BALANCE SHEET.—Cr.

Capital stock	$264,804 01	
Funded debt	446,000 00	
		$710,804 01
Unfunded debt:		
Interest unpaid	$6,506 67	
Vouchers and accounts	17,351 48	
Other liabilities:		
Net traffic balance due other companies	3,639 07	
Saginaw & Grand Rapids R. R. Co.	18,633 27	
Detroit, Lansing & Northern R. R. Co.	90,463 64	
		136,564 13
Total		$847,368 14

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$705,213 81
Average cost per mile of road (not included in sidings, 35.50 miles)	19,865 18
Proportion of cost for Michigan	705,213 81

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Nothing.

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$49,177 26	
Through fares	642 98	
Total passenger fares	$49,820 24	
Express and baggage	881 65	
Mails	3,300 84	
Total		$54,002 73
Proportion for Michigan	$54,002 73	
Per train mile	88	
Per mile of road	1,197 40	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$36,676 52	
Through traffic	2,474 62	
Total traffic	$39,151 14	
Other sources	106 12	
Total freight department earnings		$39,257 26
Proportion for Michigan	$39,257 26	
Per train mile	1 39	
Per mile of road	870 45	
Total transportation earnings		$93,259 99
Transportation earnings per mile of road	2,067 85	
Transportation earnings per train mile	99	

Miscellaneous receipts from operating account other than for transportation as follows:

From telegraph	$95 78	
From other sources	240 00	
		335 78
Total		$93,595

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Total earnings from operation of road		$93,595 77
Total earnings per mile of road	$2,075 30	
Total earnings per train mile	1 00	
Proportion of taxable earnings for Michigan	93,595 77	
Total taxable earnings per mile of road in Michigan	2,075 30	
Income other than from earnings		1,396 00
Total income from all sources		$94,991 77
Proportion of income for Michigan		$94,991 77

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$8,706 81
Renewals of rails	9,379 60
Renewals of ties	2,749 72
Repairs of bridges, including culverts and cattle guards	3,465 48
Repairs of fences, road crossings, and signs	294 00
Repairs of buildings	1,235 37
Total	$25,832 98

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$1,372 81
Repairs of passenger cars	953 88
Repairs of freight cars	1,299 22
Total	$3,625 41

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$6,560 10
Water supply	265 32
Oil and waste	465 54
Locomotive service	7,046 43
Passenger train service	2,367 28
Passenger train supplies	237 04
Mileage of passenger cars	2,103 81
Freight train service	2,650 25
Freight train supplies	115 78
Mileage of freight cars	281 75
Telegraph expenses (maintenance and operating)	1,136 09
Damage and loss of freight and baggage	47 15
Damages to property and cattle	94 00
Agents and station service	7,083 26
Station supplies	426 47
Total	$30,880 28

GENERAL EXPENSES.

Salaries of the general officers of the company	$1,797 80
Salaries of clerks in general offices	2,028 48
Law expenses	322 43
Insurance	228 43
Stationery and printing	1,189 08
Outside agencies and advertising	3,019 93
Contingencies	639 53
Taxes	1,897 09
Total	$11,122 77

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	36.15	$25,832 98
Maintenance of motive power and cars	5.07	3,625 41
Conducting transportation	43.21	30,880 28
General expenses, including taxes	15.57	11,122 77
Total operating expenses and taxes	100.00	$71,461 44

Operating expenses and taxes per mile of road	$1,584 51
Operating expenses and taxes per train mile run, for trains earning revenue (93,764 miles)	76

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PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.

Main line		$71,461 44
Total proportion of expenses for Michigan		71,461 44
Percentage of expenses to earnings	76.85	
Net earnings per mile of road		490 79
Net earnings per train mile		24

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Paines to St. Louis, January, 1873.
From Alma to Ithaca, March, 1883.

MAIN LINE.

	Miles.
In Michigan, from Paines to St. Louis	28.60
Total length completed	28.60

BRANCHES.

Ithaca, from Alma to Ithaca	6.90
Total length of branches owned by company	6.90
Total length of branches owned by company in Michigan	6.90
Total length of road belonging to this company	35.50
Total length of road belonging to this company in Michigan	35.50
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	4.22
Aggregate length of tracks in Michigan belonging to this company, computed as single track	39.72

Gauge of track, 4 feet 8½ inches.

Proprietary or leased roads operated by this company.

Name, description and length of each:

	Total miles.	In Michigan.
Saginaw & Grand Rapids R. R. Co., St. Louis to Alma	3.60	
Jackson, Lansing & Saginaw, East Saginaw to Paines	6.00	
Total	9.60	9.60
Total miles operated by this company	9.60	9.60

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	63
Wooden trestles	6	478
Total	8	541

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Toledo, Ann Arbor & North Michigan R. R. at St. Louis.

What railroads cross your road either over or under your grade in this State and where?
None.

At what crossings are interlocking and derailing switches in operation?
None.

Number of crossings of highways at grade in this State	60
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad	None.
Have safety guards been erected at over-head obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Hart guard and blocked with plank.

Stations.

Number of stations on whole line	14
Same in Michigan	14

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Employés.

Number persons regularly employed on all roads operated by company, including officials	53
Same in Michigan	53

Classify your employés as per following list:

	Number.
Baggagemen	1
Brakemen	3
Conductors	3
Engineers	4
Firemen	6
Laborers	25
Others	11

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	78.14

Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:
All fenced.

Road Bed and Track.

Number of track sections in Michigan	7
Average length of sections (miles)	5.63
Average number of men in each section gang	3
Number of new ties put in whole line during the year	11,430
Number of new ties put in track in Michigan	11,430
Average number of new ties per mile of road	254

New rails put in track:
None.

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	None.

Timber culverts replaced during the year:
None.

New bridges built during the year, number	5

Location.	Kind.	Material.	Month built.	Feet in length.
Pine river at Alma	Pile trestle	Wood	April	159
Horse creek	" "	"	March	42
Porters	" "	"	July	42
Grahams	" "	"	August	28
Swan creek	" "	"	September	194

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3	$7,500 00
Total	3	$7,500 00
Number of passenger cars— 8 wheel, including official cars	2	5,000 00
Number of express and baggage cars	1	1,500 00
Number of box freight cars	10	2,500 00
Number of platform cars	40	7,000 00
Number of conductors' way cars	2	400 00
Total	55	$22,900 00

Number of locomotives equipped with power brakes	3
Number of passenger-train cars equipped with power brakes	3

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Locomotives, 3; Westinghouse automatic cars, 3.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Gould.

How are your passenger cars heated?
By steam from locomotives.

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MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	65,274
Miles run by freight trains during the year	23,490
Total mileage of trains earning revenue	98,764

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	519		
Number of local passengers carried	101,784		
Total number of passengers carried	102,303		
Total passenger mileage, or passengers carried one mile	1,925,229		
Average distance traveled by each passenger		18.818	
Average amount received from each passenger			$0 48.698
Average rate of fare per mile for through passengers			02.750
Average rate of fare per mile for local passengers			02.585
Average rate of fare per mile for all passengers			02.587

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	1,537		
Number of tons of local freight carried	60,860		
Total tons of freight carried	62,397		
Total mileage of through freight		69,165	
Total mileage of local freight		1,238,828	
Total freight mileage or tons carried one mile		1,307,993	
Average ton haul for through freight		45	
Average ton haul for local freight		20.36	
Average ton haul for all freight		20.96	
Average amount received for each ton haul			$0 62.745
Average rate per ton per mile received for through freight			03.577
Average rate per ton per mile received for local freight			02.960
Average rate per ton per mile received for all freight			02.993

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	5,406	8.66
Flour	668	1.07
Provisions (beef, pork, lard, etc.)	488	.78
Animals and animal products	954	1.53
Other agricultural products	1,807	2.90
Lumber and forest products	31,587	50.62
Coal	492	.79
Plaster, lime and cement	1,032	1.65
Salt	8,824	14.14
Petroleum and other oils	450	.72
Railroad iron, iron and steel rails	151	.24
Pig and bloom iron	1	.01
Other iron and castings	766	1.23
Stone, brick and sand	1,989	3.18
Manufactures—articles shipped from point of production	1,198	1.92
Merchandise and other articles not enumerated above	6,589	10.57
Total tons carried	62,397	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

The American Express Co. They handle their own freight.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

35 miles. To Western Union Telegraph Co.

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Transportation Companies.

SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year; on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?
Included in D., L. & N. R. R. Report.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?
Included in D., L. & N. R. R. report.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

None.

INJURED.

None.

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Saginaw Valley & St. Louis Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

CHAS. M. HEALD.
U. B. ROGERS.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.
[L. S.]

ERNEST N. WELLER,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

SAGINAW & GRAND RAPIDS RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary and Treasurer, JAMES E. HOWARD, Grand Rapids, Mich

DIRECTORS.

H. H. HUNNEWELL, Boston, Mass.
JOHN A. BURNHAM, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
F. H. DAMON, Boston, Mass.
WM. G. MEANS, Boston, Mass.
CHAS. L. YOUNG, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
NATH'L THAYER, Boston, Mass.
A. H. HARDY, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
W. HUNNEWELL, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.

Terms expire July 13, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—October 12, 1878.

Number of stockholders at date of last election	24
Number of stockholders in Michigan at same date	1
Amount of full paid stock held in Michigan at same date	$100 00

Date of annual meeting of stockholders—Second Wednesday in July.
Fiscal year of company ends, December 31.
General offices of the company are located at Grand Rapids, Mich.

REMARKS.

This road is leased to the Saginaw Valley & St. Louis Railroad Company during the corporate existence of both companies; the Saginaw Valley & St. Louis Railroad Company paying a dividend of ten (10) per cent upon the stock of this company as rental, two (2) per cent of which is set aside to purchase the stock of the Saginaw & Grand Rapids Railroad Company for the use and benefit of the Saginaw Valley & St. Louis Railroad Company at an agreed price.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$70,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	700		
Amount paid in on common			$70,000 00
Total amount paid in, as per books of the company			$70,000 00
Paid in per mile of road owned by company (miles, 3.6)			$19,444 44

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ANALYSIS OF DEBT ACCOUNTS.

No debt accounts.

Total amount of stock	$70,000 00
Stock per mile of road	19,444 44

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$70,000 00
Average cost per mile of road (not included in sidings, 3.6 miles)	19,444 44
Proportion of cost of construction for Michigan	All.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
May, 1879.

MAIN LINE.

	Miles.
Length completed in Michigan	3.60
Total length completed	3.60
Total length of road belonging to this company	3.60
Total length of road belonging to this company in Michigan	3.60
Aggregate length of tracks belonging to this company, computed as single track	3.60
Same in Michigan	3.60

Gauge of track, 4 feet 8½ inches.

STATE OF MASSACHUSETTS, } ss.
COUNTY OF SUFFOLK. }

Nathaniel Thayer, president, and James E. Howard, Secretary, of the Saginaw & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

N. THAYER, *President.*
JAMES E. HOWARD, *Secretary.*

Subscribed and sworn to before me this 14th day of March, A. D. 1892, by Nathaniel Thayer.
[L. S.]

F. H. DAMON,
Notary Public, State of Massachusetts.

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Subscribed and sworn to before me this 24th day of February, A. D., 1892, by James E. Howard.
[L. S.]

ERNEST N. WELLER,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

SAGINAW & WESTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary and Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

DIRECTORS.

CHARLES F. ADAMS, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
A. H. HARDY, Boston, Mass.
NATHANIEL THAYER, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
CHAS. L. YOUNG, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire May 11, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 7, 1883.	
Number of stockholders at date of last election	9
Number of stockholders in Michigan at same date.	1
Amount of full paid stock held in Michigan at same date	$100 00
Date of annual meeting of stockholders—Second Wednesday in May.	
Fiscal year of company ends December 31.	
General offices of the company are located at Grand Rapids, Mich.	

REMARKS.

The road of this company is leased for thirty years from July 1, 1883, to the Detroit, Lansing & Northern Railroad Co., that company paying the interest on the bonds and a dividend of 7 per cent per annum on the stock of this company as rental.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$675,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	45		
Amount paid in on common		$4,500 00	
Total amount paid in, as per books of the company			$4,500 00
Paid in per mile of road owned by company, miles, 42.57			$105 71

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds	6%	1913	Boston, Mass.	$566,000 00
Total funded debt				$566,000 00

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$566,000 00
Total debt liabilities	566,000 00
Amount of debt liabilities per mile of road (42.57 miles)	13,295 75
Total amount of stock and debt	570,500 00
Stock and debt per mile of road	13,401 46

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$39,960 00

Was it paid for the last year?
Yes.
If interest is in default state the years and amounts as follows:
None.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$558,735 65
Average cost per mile of road (not included in sidings, 42.57 miles)	13,124 16
Proportion of cost of construction for Michigan	All.
Total expense for equipment	9,600 00
Per mile of road (42.57 miles)	225 51
Total for construction and equipment	568,335 65
Per mile of road (42.57 miles)	13,349 67

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
August, 1886.

MAIN LINE.

	Miles.
Length completed in Michigan, Alma to Howard	42.57
Total length completed	42.57
Total length of road belonging to this company	42.57
Total length of road belonging to this company in Michigan	42.57
Aggregate length of sidings, spurs, and other tracks not above enumerated	7.87
Same in Michigan	7.87
Aggregate length of tracks belonging to this company, computed as single track	50.44
Same in Michigan	50.44

Gauge of track 4 feet 8½ inches.

STATE OF MASSACHUSETS, } ss.
COUNTY OF SUFFOLK. }

Nathaniel Thayer, president, and James E. Howard, secretary, of the Saginaw & Western Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

N. THAYER, *President.*
JAMES E. HOWARD, *Secretary.*

Subscribed and sworn to before me this 14th day of March, A. D. 1892, by Nathaniel Thayer.

F. H. DAMON,
Notary Public, State of Massachusetts.

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

Subscribed and sworn to before me this 24th day of February, 1892, by James E. Howard.

ERNEST N. WELLER,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

LOWELL & HASTINGS RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WILLIAM WINEGAR, Grand Rapids.
Secretary and Treasurer, McGEORGE BUNDY, Grand Rapids.
Auditor, W. H. CLARK, Lowell.
General Manager, M. L. SWEET, Grand Rapids.
Traffic Manager, W. H. CLARK, Lowell.

DIRECTORS.

WM. WINEGAR, Grand Rapids.
M. L. SWEET, Grand Rapids.
McG. BUNDY, Grand Rapids.
GEO. H. TUXBURY, Hart, Mich.
Terms expire May 31, 1891, or when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—May 6, 1887.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	None.
Date of annual meeting of stockholders—June 3, 1891.	
Fiscal year of company ends—Calendar year.	
General offices of the company are located at Grand Rapids, Mich.	

REMARKS.

All traffic affairs are now ordered from Lowell.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$10,554 88
Total expenses, including taxes	$9,310 27	
Net income		$1,244 61
Balance for the year		$1,244 61
Balance (profit and loss) last year	$1,114 72	
Balance forward to next year	129 89	
	$1,244 61	$1,244 61

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$200,000 00
Par value of shares	$100 00	
Number of shares issued	None.	
Amount paid in on common	$10,000 00	
Amount paid in on shares not issued	10,000 00	
Total amount paid in, as per books of the company		$10,000 00
Paid in per mile of road owned by company—12.50 miles		$800 00

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For construction	$162,504 28
For renewals	559 81
Total unfunded debt	$163,064 09

RECAPITULATION.

Total unfunded debt	$163,064 09
Total debt liabilities	163,064 09
Amount of debt liabilities per mile of road (12.50 miles)	13,045 53
Total amount of stock and debt	173,064 09
Stock and debt per mile of road (12.50 miles)	13,845 52

GENERAL BALANCE SHEET.—Dr.

Construction account	$162,504 28
Income account	10,559 81
Total	$173,064 09

GENERAL BALANCE SHEET.—Cr.

Capital stock	$10,000 00
Unfunded debt	163,064 09
Total	$173,064 09

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$173,064 09
Average cost per mile of road (not included in sidings, 12.50 miles)	13,845 12
Proportion of cost for Michigan	173,064 09

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$3,928 80	
Total passenger fares	$3,928 80	
Mails	570 00	
Total passenger department earnings		$4,498 80
Proportion for Michigan	$4,498 80	
Per train mile	17	
Per mile of road	359 90	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$5,836 65	
Total traffic	$5,836 65	
Other sources	219 43	
Total freight department earnings		6,056 08
Proportion for Michigan	$60,056 08	
Per train mile	24	
Per mile of road	484 48	
Total transportation earnings		$10,554 88
Transportation earnings per mile of road	$844 39	
Transportation earnings per train mile	41	
Total earnings from operation of road		$10,554 88
Total earnings per mile of road	844 39	
Total earnings per train mile	41	
Proportion of taxable earnings for Michigan		10,554 88
Total taxable earnings per mile of road in Michigan	844 39	
Total income from all sources		10,554 88
Proportion of income for Michigan		10,554 88

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ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,110 15
Renewals of ties	57 00
Repairs of bridges, including culverts and cattle guards	50 00
Repairs of fences, road crossings and signs	200 00
Total	$1,417 15

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$154 00
Repairs of passenger cars	10 00
Total	$164 00

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$1,200 13
Oil and waste	250 73
Locomotive service	2,160 86
Passenger train service	1,200 41
Passenger train supplies	140 60
Mileage of freight cars	62 00
Telegraph expenses (maintenance and operating)	38 75
Damages to property and cattle	20 00
Agents and station service	2,040 00
Station supplies	398 40
Total	$7,511 88

GENERAL EXPENSES.

Taxes	$217 24
Total	$217 24

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	15.22	$1,417 15
Maintenance of motive power and cars	01.75	164 00
Conducting transportation	80.70	7,511 88
General expenses, including taxes	02.33	217 24
Total operating expenses and taxes	100.00	$9,310 27
Operating expenses and taxes per mile of road	$744 82	
Operating expenses and taxes per train mile run, for trains earning revenue (22,500 miles)	41	
Proportion of operating expenses and taxes for Michigan		$9,310 27
Percentage of expenses to earnings	88.2	
Net earnings per mile of road		$99 57
Net earnings per train mile		.0044

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Lowell to Freeport, December, 1887.

MAIN LINE.

	Miles
In Michigan, from Lowell to Freeport	12.50
Total length completed	12.50
Total length of road belonging to this company	12.50
Total length of road belonging to this company in Michigan	12.50
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	1.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	13.50

Gauge of track—4 feet, 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	10	670
Total	10	670

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Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
G. R., L. & D. R. R. at Elmdale.
D., G. H. & M. R'y at Lowell.

At what crossings are interlocking and derailing switches in operation?
Elmdale and Lowell.

What pattern or patterns have you adopted?
Gravit and Allentown.

Number of crossings of highways at grade in this State	17
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Number of crossings at which there are electric or automatic signals	None.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Blocked with wood and spiked.

Stations.

Number of stations on whole line	3
Same in Michigan	3

Employés.

Number persons regularly employed on all roads operated by company, including officials	16
Same in Michigan	16

Classify your employés as per following list:

	Number.
Brakemen	1
Conductors	1
Engineers	1
Firemen	1
Laborers	5
Shopmen	1
Others	6

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	20.50
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:	
Barry	4.
Kent	.50
Total miles required	4.50

Road Bed and Track.

Number of track sections in Michigan	1
Length of section (miles)	12.50
Number of men in section gang	4
Number of new ties put in whole line during the year	76
Number of new ties put in track in Michigan	76
Average number of new ties per mile of road	6

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	2	$4,000 00
Total	2	$4,000 00
Number of passenger cars—8-wheel, including official cars, combination	1	1,500 00
Number of platform cars	5	$1,500 00
Total	6	$3,000 00
Number of locomotives equipped with power brakes		1
Number of passenger-train cars equipped with power brakes		1

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What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
As fast as sent in for repairs.

What pattern or patterns have you adopted for use?
M. C. B. vertical plane type.

How is your passenger car heated?
Baker heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by mixed trains	22,500
Total mileage of trains earning revenue	22,500

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	19,787		
Total number of passengers carried	19,787		
Average distance traveled by each passenger		6	
Average amount received from each passenger			$0 20
Average rate of fare per mile for through passengers			3.33
Average rate of fare per mile for local passengers			3.33

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	10,700		
Total freight mileage, or tons carried one mile	74,900		
Average ton haul for all freight		7	
Average amount received for each ton haul			$0 56
Average rate per ton per mile, received for all freight			4

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	1,820
Flour	1,679
Provisions (beef, pork, lard, etc.)	100
Animals	260
Other agricultural products	1,230
Lumber and forest products	2,970
Coal	1,130
Plaster, lime and cement	50
Salt	100
Petroleum	21
Iron and castings	31
Manufactures—articles shipped from point of production	281
Merchandise and other articles not enumerated above	1,028
Total	10,700

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	1,820	17.00
Flour	1,679	15.69
Provisions (beef, pork, lard, etc)	100	.94
Animals	260	2.42
Other agricultural products	1,230	11.50
Lumber and forest products	2,970	27.76
Coal	1,130	10.57
Plaster, lime and cement	50	.47
Salt	100	.93
Petroleum	21	.20
Iron and castings	31	.29
Manufactures,—articles shipped from point of production	281	2.63
Merchandise and other articles not enumerated above	1,028	9.60
Total tons carried	10,700	100.00

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

None.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

12½ miles belong to R. R. company.

STATE OF MICHIGAN, } ss.
COUNTY OF KENT. }

McGeorge Bundy, treasurer, of the Lowell & Hastings Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] McGEORGE BUNDY,

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[L. S.] ZNA SLAYTON,
Notary Public, Kent Co., Mich.

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ANNUAL REPORT

OF THE

TOLEDO, ANN ARBOR & NORTH MICHIGAN RAILWAY CO.,

For the year ending December 31, 1891.

[Filed April 21, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES M. ASHLEY, Toledo, Ohio.
Vice President, JAMES M. ASHLEY, JR., Toledo, Ohio.
Secretary, F. S. CHANDLER, Toledo, Ohio.
Auditor, F. GOSSMAN, Toledo, Ohio.
Treasurer, G. B. PARKE, Toledo, Ohio.
General Manager, H. W. ASHLEY, Toledo, Ohio.
Superintendent, J. B. CONNERS, Owosso, Mich,
Chief Engineer, H. E. RIGGS, Toledo, Ohio.
Superintendent of Telegraph, J. B. CONNERS, Owosso, Mich.
General Passenger Agent, W. H. BENNETT, Toledo, Ohio.
General Freight Agent, W. H. BENNETT, Toledo, Ohio.
Attorney, DOYLE, SCOTT & LEWIS, Toledo, Ohio.

DIRECTORS.

JAMES M. ASHLEY, Toledo, Ohio.
A. W. WRIGHT, Alma, Michigan.
HENRY W. ASHLEY, Toledo, Ohio.
W. R. BURT, Saginaw, Michigan.
WILLIAM BAKER, Toledo, Ohio.
DAVID ROBINSON, Jr., Toledo, Ohio.
S. DEAN, Ann Arbor, Michigan.
T. W. CHILDS, Toledo, Ohio.
J. M. ASHLEY, JR., Toledo, Ohio.
E. A. TODD, Owosso, Michigan.
T. W. WHITNEY, St. Louis, Michigan.
Terms expire April, 1892.

STOCKHOLDERS. STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—October 16, 1880, amended November 30, 1886.
Date of annual meeting of stockholders—Third Wednesday in April each year.
Fiscal year of company ends—December 31.
General offices of the company are located at Toledo, Ohio.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$977,255 63
Total expenses, including taxes	$587,026 17	
Net income		$390,229 46

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	Debit.	Credit.
Interest on funded debt	$371,640 00	
Interest on unfunded debt	2,577 28	
Rentals of buildings, tracks, etc.	14,736 31	
		$388,953 54
Balance for the year		$1,375 92
Balance (profit and loss) last year		130,575 61
Balance forward to next year		$131,951 53

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$6,200,000 00
Par value of shares	$100 00	
Number of shares issued	62,000	
Amount paid in on common	$6,200,000 00	
Total amount paid in, as per books of the company		$6,200,000 00
Paid in per mile of road owned by company—284.91 miles		$21,761 25

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st m'tg gold bond T., A. A. & G. T. R'y Co., Jan. 1880	6 %	1921	N. Y. City	$1,260,000 00
1st m'tg gold bond T., A. A. & N. M. R'y Co., May, 1888	6 %	1924	N. Y. City	2,120,000 00
1st m'tg gold bond T., A. A. & M. P. R'y Co., Mar. 1887	6 %	1916	N. Y. City	400,000 00
1st m'tg gold bond T., A. A. & C. R'y Co., Mar. 1887	6 %	1917	N. Y. City	1,260,000 00
1st m'tg gold bond T., A. A. & L. M. R'y Co., July 1889	6 %	1919	N. Y. City	624,000 00
1st m'tg gold bond, consolidated, January, 1890	5 %	1940	N. Y. City	696,000 00
Total funded debt				$6,300,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For equipment	Paid from earnings	$148,119 89
For miscellaneous	Accrued bond interest—paid from earnings	54,400 00
For current balances	Paid from earnings	303,014 18
Total unfunded debt		$505,534 07

RECAPITULATION.

Total funded debt		$6,300,000 00
Total unfunded debt		505,534 07
Total debt liabilities		$6,805,534 07
Amount of debt liabilities per mile of road (284.91 miles)		$23,886 61
Total amount of stock and debt		13,005,534 07
Stock and debt per mile of road (284.91 miles)		45,647 86

GENERAL BALANCE SHEET.—Dr.

Construction account	$12,077,328 37	
Equipment account	871,587 54	
		$12,948,915 91
Cash items:		
Cash	$23,493 20	
Due from agents	49,384 80	
		72,878 00
Other assets:		
Materials and supplies	$41,033 08	
Debit balances from companies and individuals	74,558 61	
		115,591 69
Total		$13,137,385 60

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GENERAL BALANCE SHEET.—Cr.

Capital stock		$6,200,000 00
Funded debt		6,300,000 00
Unfunded debt:		
Interest unpaid	$54,400 00	
Notes payable	109,314 77	
Vouchers and accounts	193,699 41	
Other liabilities:		
Car trusts	148,119 89	
		505,534 07
Profit and loss or income accounts		181,851 53
Total		$13,187,385 60

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$12,948,915 91
Average cost per mile of road (not included in sidings, (284.91 miles)	45,449 14
Proportion of cost for Michigan	12,721,670 19

Purchased by present company.

When purchased—Toledo & State Line Railroad, 1878.	
Original cost to present company of road and equipment	$80,000 00
Total cost to date of report	80,000 00
Average cost per mile of road (not including sidings, 5 miles)	16,000 00
Proportion of cost for Michigan	None.

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Right of way, etc.	$8,835 27
Total	$8,835 27
Total charges to property account as above	$8,835 27
Property sold and credited	100 75
Net addition to property account	$8,734 52

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$258,393 16	
Through fares	499 10	
Total passenger fares	$258,892 26	
Express and baggage	16,500 00	
Mails	26,764 92	
Total passenger department earnings		$302,157 18
Proportion for Michigan	$296,854 51	
Per train mile	81.88	
Per mile of road	1,060 58	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$591,455 08	
Through traffic	11,946 39	
Total traffic	$603,401 47	
Other sources	32,041 15	
Total freight department earnings		635,442 62
Proportion for Michigan	$624,290 97	
Per train mile	1 72.20	
Per mile of road	2,230 33	
Total transportation earnings		$937,599 80

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Transportation earnings per mile of road	$3,290 86	
Transportation earnings per train mile	1 13.06	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph	$1,807 71	
From rentals of tracks and terminals	36,219 11	
From other sources	1,629 01	
Total		$39,655 83
Proportion for Michigan	$38,959 91	
Total earnings from operation of road		$977,255 63
Total earnings per mile of road	$3,430 05	
Total earnings per train mile	1 17.84	
Proportion of taxable earnings for Michigan	960,105 38	
Total taxable earnings per mile of road in Michigan	3,430 05	
Total income from all sources		$977,255 63
Proportion of income for Michigan		$960,105 34

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$62,810 82
Renewals of ties	14,301 46
Repairs of bridges, including culverts and cattle guards	6,206 00
Repairs of fences, road crossings, and signs	7,019 87
Repairs of buildings	8,655 69
Total	$98,993 84

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$34,641 42
Repairs of passenger cars	13,993 32
Repairs of freight cars	41,661 47
Total	$90,326 21

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$60,532 27
Water supply	3,287 76
Oil and waste	3,389 37
Locomotive service	64,923 54
Passenger train service	14,297 79
Passenger train supplies	1,603 68
Freight train service	44,937 30
Freight train supplies	2,239 83
Mileage of freight cars	39,970 88
Telegraph expenses (maintenance and operating)	12,217 27
Damage and loss of freight and baggage	1,664 08
Damages to property and cattle	1,967 86
Personal injuries	2,818 46
Agents and station service	48,332 96
Station supplies	2,322 13
Total	$304,516 13

GENERAL EXPENSES.

Salaries of the general officers of the company	$19,751 15
Salaries of clerks in general offices	16,424 42
Law expenses	5,064 28
Insurance	3,321 55
Stationery and printing	9,134 31
Outside agencies and advertising	573 41
Contingencies	16,431 37
Taxes	22,489 50
Total	$93,189 99

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	16.93	$98,993 84
Maintenance of motive power and cars	15.39	90,326 21
Conducting transportation	51.88	304,516 13
General expenses, including taxes	15.88	93,189 99
Total operating expenses and taxes	100.00	$587,026 17

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Operating expenses and taxes per mile of road		$2,060 39
Operating expenses and taxes per train mile run, for trains earning revenue (829,278 miles)		70.78
Proportion of operating expenses and taxes for Michigan		576,724 22
Percentage of expenses to earnings	60.06	
Net earnings per mile of road		1,369 66
Net earnings per train mile		47.06

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Toledo, Ohio, to Copemish, Michigan, November 17, 1889.

MAIN LINE.

	Miles.
In Michigan, from state line to Copemish	271.46
In Ohio, from Toledo to Alexis (state line)	5.00
Total length completed	276.46

BRANCHES.

Macon, from Macon to Quarry	1.62
St. Louis, from Saginaw Valley & St. Louis crossing to St. Louis	1.42
Ithaca, from main line to Ithaca	1.61
Alma, from main line to Pine river	.99
Ross, from main line to Muskegon	1.52
Diggins, from main line to Diggins' mill	1.29
Total length of branches owned by company	8.45
Total length of branches owned by company in Michigan	8.45
Total length of road belonging to this company	284.91
Total length of road belonging to this company in Michigan	279.91
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	39.99
Aggregate length of tracks in Michigan belonging to this company, computed as single track	319.90

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	92
Combination bridges	8	343
Wooden trestles	168	10,507
Total	178	10,942

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Lake Shore & Michigan Southern R'y at Monroe Junction, Dundee and Pittsfield.
Wabash Railroad at Milan.
Detroit, Lansing & Northern R. R. at Howell Junction.
Detroit, Grand Haven & Milwaukee R'y at Durand.
Chicago & Grand Trunk R'y at Durand.
Detroit, Grand Haven & Milwaukee R'y at Corunna.
Michigan Central R. R. at Owosso.
Saginaw Valley & St. Louis R. R. at St. Louis.
Flint & Pere Marquette R. R. at Clare.
Grand Rapids & Indiana R. R. at Cadillac.
Cummer Lumber Co. R. R. at Cadillac.

What railroads cross your road either over or under your grade in this State and where?
Under;
Michigan Central Railroad, at Ann Arbor.

At what crossings are interlocking and derailing switches in operation?

Detroit, Lansing & Northern R. R. at Howell Junction.
Flint & Pere Marquette R. R. at Clare.
Grand Rapids & Indiana R. R. at Cadillac.

What pattern or patterns have you adopted?
Union Switch and Signal. Allentown.

Number of crossings of highways at grade in this State	294
Number of crossings of highways at grade in this State at which there are gates or flagmen	5
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad—over 3, under 1	4
Number of highway bridges 18 feet above track	3

Number of highway bridges less than 18 feet above track:
None.

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Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Blocked with wood and spiked to tie.

Stations.

Number of stations on whole line	62
Same in Michigan	60

Employés.

Number persons regularly employed on all roads operated by company, including officials	682
Same in Michigan	597

Classify your employés as per following list:

	Number.
Baggagemen	7
Brakemen	57
Conductors	27
Engineers	39
Firemen	39
Laborers	177
Shopmen	120
Yardmen	23
Others	193

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	507
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:	
Clare county	30

Road Bed and Track

Number of track sections in Michigan	38
Average lengths of sections (miles)	7
Average number of men in each section gang	4
Number of new ties put in whole line during the year	47,974
Number of new ties put in track in Michigan	44,702
Average number of new ties per mile of road in Michigan	168

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	96
Timber culverts replaced during the year	37
With iron pipe—number	6
With sewer pipe—number	26
With timber—number	5

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	34	$220,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	2	7,500 00
Total	36	$227,500 00
Number of passenger cars—8 wheel, including official cars	20	65,000 00
Number of express and baggage cars	4	11,000 00
Number of box freight cars	681	170,000 00
Number of platform cars	375	78,000 00
Number of conductors' way cars	17	8,000 00
Other cars as follows:		
Snow plows, 3; wrecking, 2; derrick, 1; maintenance of way, 2	8	20,000 00
Charcoal cars	18	
Total	1,123	$579,500 00

Number of locomotives equipped with power brakes	34
Number of passenger train cars equipped with power brakes	24
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?

Passenger cars—Westinghouse	24
Locomotives—Westinghouse, 15; American Steam Brake, 10; Eames' Vacuum, 11	36

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Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

What pattern or patterns have you adopted for use?
Have tried several patterns without satisfactory result.

How are your passenger cars heated?
Baker heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	362,064
Miles run by freight trains during the year	439,436
Miles run by mixed trains	27,773
Total mileage of trains earning revenue	829,273

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	62		
Number of local passengers carried	292,093		
Total number of passengers carried	292,155		
Total passenger mileage, or passengers carried one mile		9,610,107	
Average distance traveled by each passenger		32.5	
Average amount received from each passenger			$0 88.6
Average rate of fare per mile for through passengers			2.67
Average rate of fare per mile for local passengers			2.69
Average rate of fare per mile for all passengers			2.69

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	8,494		
Number of tons of local freight carried	777,980		
Total tons of freight carried	786,474		
Total mileage of through freight		2,327,356	
Total mileage of local freight		60,789,672	
Total freight mileage, or tons carried one mile		63,117,028	
Average ton haul for through freight		274	
Average ton haul for local freight		78.1	
Average ton haul for all freight		80.2	
Average amount received for each ton haul			$0 76.7
Average rate per ton per mile, received for through freight			.51
Average rate per ton per mile, received for local freight			.97
Average rate per ton per mile, received for all freight			.95

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	17,520
Flour	6,808
Provisions (beef, pork, lard, etc.)	627
Animals	7,201
Other agricultural products	21,600
Lumber and forest products	207,000
Coal	8,765
Plaster, lime and cement	2,970
Salt	11,330
Petroleum	579
Railroad iron, iron and steel rails	720
Pig and bloom iron	1,262
Other iron and castings	12,632
Ice	73,510
Stone, brick and sand	6,593
Manufactures,—articles shipped from point of production	16,947
Merchandise and other articles not enumerated above	44,806
Total forwarded	440,870

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Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	20,367	2.59
Flour	20,096	2.55
Provisions (beef, pork, lard, etc.)	787	.10
Animals	7,374	.94
Other agricultural products	30,292	3.85
Lumber and forest products	224,485	28.54
Coal	251,502	31.98
Plaster, lime and cement	5,447	.69
Salt	11,381	1.45
Petroleum	11,529	1.47
Railroad iron, iron and steel rails	2,419	.31
Pig and bloom iron	7,292	.93
Other iron and castings	10,103	1.29
Ice	73,510	9.34
Stone, brick and sand	8,514	1.08
Manufactures—articles shipped from point of production	31,613	4.02
Merchandise and other articles not enumerated above	69,763	8.87
Total tons carried	786,474	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. General freight taken at depot only. Fixed rate per mile of road.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

276 miles. Toledo, Ann Arbor & North Michigan Railway Co.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room, and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

None.

Fast Freight Lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Cannot answer. Do not know.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

May 10, Zeb Biglow, Shepherd. Collision of two parts of log train.
May 10, C. E. Struble, Shepherd. Collision of two parts of log train.
May 10, Sherwood Clark, Shepherd. Collision of two parts of log train.
September 3, John Kearney, Ann Arbor. Trying to board moving train.
October 21, Stephen Jacobs, Ann Arbor. Walking on track.

INJURED.

January 2, E. A. Braman, Ann Arbor. Carelessness in applying brakes.
January 27, Lee Alden, Park Lake. Failure to get off track.
May 4, C. Stapleton, Marion. Hand caught between deadwood.
July 14, E. Reynolds, Temple. Broken flange on engine truck.
July 14, J. Hurst, Temple. Broken flange on engine truck.
July 14, W. J. Billings, Temple. Broken flange on engine truck.
July 14, E. Curtis, Temple. Broken flange on engine truck.
October 20, Wm. Ragan, Durand. Stumbled on guard rail.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		1	2			
Coupling cars					1	
Derailments					2	2
Falling from trains					1	
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous					2	
Overhead obstructions						
Trespassers on trains			1			
Trespassers on tracks			1			
Total		1	4		6	2

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	5
Number of persons injured during the year	8
Number of casualties purely accidental	8
Number resulting from lack of caution, carelessness, or misconduct	3
Trespassers and tramps killed or injured	2

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		2	
Conductors			
Engineers		1	
Firemen		1	
Laborers		1	
Shopmen			
Yardmen		1	
Not classified above			
Total		6	6

STATE OF OHIO, } ss.
COUNTY OF LUCAS. }

J. M. Ashley, president, and Frederick Gossman, auditor, of the Toledo, Ann Arbor & North Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

J. M. ASHLEY, *President.*
FREDERICK GOSSMAN, *Auditor.*

Subscribed and sworn to before me this 20th day of April, A. D. 1892.

[L. S.]

GEORGE B. PARKE,
Commissioner of Deeds for Michigan, residing in Toledo, Lucas county, Ohio.

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ANNUAL REPORT

OF THE

FLINT & PERE MARQUETTE RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 25, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. W. CRAPO, New Bedford, Mass.
Vice President, H. C. POTTER, Saginaw, Mich.
Secretary and Treasurer, H. C. POTTER, JR., Saginaw, Mich.
Auditor, GILBERT W. LEDLIE, Saginaw, Mich.
General Manager, WM. H. BALDWIN, JR., Saginaw, Mich.
General Superintendent, W. F. POTTER, Saginaw, Mich.
Traffic Manager, A. PATRIARCHE, Saginaw, Mich.
Division Superintendent, L. T. CHUBBUCK, Port Huron.
Chief Engineer, WM. B. SEARS, Saginaw, Mich.
Superintendent of Telegraph, A. H. FOLLETT, Saginaw, Mich.
Cashier, T. E. BORDEN, Saginaw, Mich.
Attorneys, WISNER & DRAPER, Saginaw, Mich.

DIRECTORS.

WM. W. CRAPO, New Bedford, Mass.
LOUM SNOW, New Bedford, Mass.
GEORGE COPPELL, New York City, N. Y.
J. LEWIS STACKPOLE, Boston, Mass.
FRANCIS V. PARKER, Boston, Mass.
JOHN W. MACKINTOSH, Boston, Mass.
LEWIS PIERCE, Portland, Maine.
H. C. POTTER, Saginaw, Mich.
WM. L. WEBBER, Saginaw, Mich.
H. C. POTTER, JR., Saginaw, Mich.
W. H. TOUSEY, Bay City, Mich.

Terms expire third Wednesday in May.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—August 31, 1880.

Number of stockholders at date of last electon	1,697
Number of stockholders in Michigan at same date	10
Amount of full paid stock held in Michigan at same date	$46,400 00

Date of annual meeting of stockholders—Third Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Saginaw, Mich.

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GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$2,544,758 42
Total expenses, including taxes	$1,789,021 80	
Net income		$755,736 63
Interest on funded debt	$559,419 18	
Interest on unfunded debt	22,352 08	
Rentals of buildings, tracks, etc		105,476 26
Balance applicable to dividends		$279,441 68
Dividends declared (4%)	$253,680 00	
Balance for the year		$25,761 68
Balance (profit and loss) last year		6,408 26
Balance forward to next year		$32,169 94

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$10,000,000 00
Par value of shares	$100 00		
Number of shares issued	96,402		
Amount paid in on common		$3,298,200 00	
Amount paid in on preferred		6,342,000 00	
Amount shares not issued (number) { Preferred, 1,580 / Common, 2,018 }		359,800 00	
Total amount, as per books of the company			$10,000,000 00
Paid in per mile of road owned by company (miles, 772.21)			$12,949 84

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue	Rate of interest.	When due.	Where payable.	Amount outstanding.
Holly, Wayne and Monroe	8%	Jan. 1, 1901	New York	$1,000,000 00
F. & P. M. 6's	6%	Oct. 1, 1920	" "	3,999,000 00
F. & P. M. 5's	5%	May 1, 1939	" "	1,550,000 00
P. H. & N. W. Div. 5's	5%	April 1, 1939	" "	3,100,000 00
Equipment 5's	5%	$40,000 ann'ly	Boston	240,000 00
Total funded debt				$9,889,000 00

UNFUNDED DEBT.

For miscellaneous	$1,104,993 29
Total unfunded debt	$1,104,993 29

RECAPITULATION.

Total funded debt	$9,889,000 00
Total unfunded debt	1,104,993 29
Total debt liabilities	$10,993,993 29
Amount of debt liabilities per mile of road (772.21 miles)	14,237 05
Total amount of stock and debt	20,993,993 29
Stock and debt per mile of road (772.21 miles)	27,186 89

GENERAL BALANCE SHEET.—Dr.

Construction account Equipment account		$20,889,283 05
Other investments:		
F. & P. M. steamers (5)	$453,563 74	
Detroit Terminal	38,772 26	
Bay City Belt Line	93,456 58	
Dining room and laundry property	3,856 48	
		539,649 06

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Cash items:			
Cash		$95,257 58	
Due from agents		104,664 80	
			$199,922 38
Other assets:			
Materials and supplies		$115,697 84	
Debit balances from companies and individuals		43,869 45	
F. & P. M. preferred stock unsold	$158,000 00		
" " common stock unsold	201,800 00		
		359,800 00	
			519,367 29
Total			$22,198,221 78

GENERAL BALANCE SHEET.—Cr.

Capital stock		$10,000,000 00
Funded debt		9,859,000 00
Unfunded debt:		
Interest unpaid	$113,651 64	
Dividends unpaid	158,550 00	
Notes payable	478,676 79	
Vouchers and accounts	354,114 86	
		1,104,993 29
Profit and loss or income accounts		1,204,228 49
Total		$22,198,221 78

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	$20,889,283 05
Average cost per mile of road, not including sidings (772.21 miles)	27,051 80
Proportion of cost for Michigan	20,889,283 05

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$331,464 97
New buildings, interlockers, etc,	8,171 57
New fences	6,271 78
Bridges	5,015 09
New locomotives	1,000 00
New cars	30,467 70
Total	$382,391 06
Total charges to property account as above	$382,391 06
Property sold and credited	84 34
Net addition to property account	$382,306 72

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$739,901 14	
Through fares	38,707 57	
Total passenger fares	$778,608 71	
Express and baggage	37,711 82	
Mails	53,460 22	
Other sources	22,808 93	
Total passenger department earnings		$892,589 68
Proportion for Michigan	$892,589 68	
Per train mile	78	
Per mile of road	1,155 89	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$1,393,521 64	
Through traffic	258,647 11	
Total freight department earnings		$1,652,168 75
Proportion for Michigan	$1,652,168 75	
Per train mile	1 80	
Per mile of road	2,139 58	
Total transportation earnings		$2,544,758 43

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Transportation earnings per mile of road	$3,295 42	
Transportation earnings per train mile	1 05	
Total earnings from operation of road		$2,544,758 43
Total earnings per mile of road	$3,295 42	
Total earnings per train mile	1 05	
Proportion of taxable earnings for Michigan	2,544,758 43	
Total taxable earnings per mile of road in Michigan	3,295 42	
Income other than from earnings:		
Net steamer earnings, etc.		105,476 26
Total income from all sources		$2,650,234 69
Proportion of income for Michigan		2,650,234 69

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$153,190 08
Renewals of ties	27,954 48
Repairs of bridges, including culverts and cattle guards	13,956 99
Repairs of fences, road crossings and signs	18,137 42
Repairs of buildings	29,677 11
Shop, tools and machinery	4,853 09
Docks and boarding cars	316 16
Total	$278,085 33

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$94,115 10
Repairs of passenger cars	75,893 95
Repairs of freight cars	77,188 09
Total	$247,197 14

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$200,843 67
Water supply	14,654 36
Oil and waste	29,316 21
Locomotive service	188,543 26
Passenger train service	58,473 58
Passenger train supplies	7,489 50
Freight train service	184,995 46
Freight train supplies	3,664 17
Mileage of freight cars	24,706 57
Telegraph expenses (maintenance and operating)	27,594 32
Damage and loss of freight and baggage	3,178 78
Damages to property and cattle	3,745 68
Personal injuries	7,186 20
Agents and station service	230,262 50
Station supplies	13,386 65
Total	$997,990 91

GENERAL EXPENSES.

Salaries of the general officers of the company	$34,718 29
Salaries of clerks in general offices	41,260 64
Law expenses	12,507 36
Insurance	2,435 61
Stationery and printing	15,263 26
Outside agencies and advertising	25,141 44
Contingencies	26,207 81
Taxes	64,923 83
Track rental and terminals	40,124 45
Engineering	3,165 73
Total	$265,748 42

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	15.54	$278,085 33
Maintenance of motive power and cars	13.82	247,197 14
Conducting transportation	55.78	997,990 91
General expenses, including taxes	14.86	265,748 42
Total operating expenses and taxes	100.00	$1,789,021 80

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Operating expenses and taxes per mile of road	$2,316 75
Operating expenses and taxes per train mile run for trains earning revenue, 2,407,126, miles	74
Proportion of operating expenses and taxes for Michigan	1,759,021 80
Percentage of expenses to earnings	67.50
Net earnings per mile of road	978 67
Net earnings per train mile	31

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Monroe to Ludington, December 1, 1874.
From City of Saginaw to City of Saginaw Belt Line, June 16, 1889.
From Manistee Junction to Manistee, January 2, 1882.
From Port Huron to East Saginaw, February 22, 1882.
From Port Huron to Sand Beach, September 13, 1880.
From Palms Junction to Port Austin, December 11, 1882.
From Port Huron to Almont, October 8, 1883.

MAIN LINE.

	Miles.
In Michigan, from Monroe to Ludington	253.55

BRANCHES.

Flint River Division	19.51
Bay City Division and branches	18.01
Bay City Loop Line	2.78
St. Clair Division and branches	14.45
City of Saginaw Belt Line and branches	9.90
Zilwaukee Spur and branches	5.29
West Shore Spur and branches	3.77
Coleman Branch	14.87
Mt. Pleasant Branch	14.51
Meredith Division and branches	87.43
Manistee Division and branches	31.49
Bay City Belt Line	5.95
Detroit Division	6.02
Star Lake Branch	20.06
Hoyt's South Branch, Lake	20.53
Other main line branches, Malony's and Dorr's	15.28
Saginaw and Port Huron	90.34
Sand Beach Division	70.25
Port Austin Division	24.50
Almont Division	23.75
Total length of branches owned by company	518.66
Total length of branches owned by company in Michigan	518.66
Total length of road belonging to this company	772.21
Total length of road belonging to this company in Michigan	772.21
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	165.27
Aggregate length of tracks in Michigan belonging to this company, computed as single track	937.48

Gauge of track, 4 feet 8½ inches, 633.71 miles; 3 feet, 138.50 miles.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	17	1,604½
Iron bridges	21	2,314½
Combination bridges	9	989
Wooden trestles	124	20,334½
Total	171	25,192½

Draw Bridges in Michigan.

How many on your line? 4

Where located, when built, and length of draw span:

One, East Saginaw, built 1876; Howe truss, wood, 168 feet.
One, East Saginaw, built 1876; Howe truss, wood, 142.50 feet.
One, South Saginaw, built 1889; Iron Howe truss, wood, 139 feet.
One, Port Huron, built 1881; iron Howe truss, wood, 140 feet.

Character of structure:
Two spans Howe truss, two spans iron truss.

Material of which constructed:
Iron and wood.

Height above water, and depth of water under bridge:
12 feet, 14 feet.

How swung, by engine or hand power:
By hand power.

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Approaches straight or curved:
Two straight and two curved.
Do you require all trains to come to full stop before crossing a draw, and how are they signalled?
All trains stop unless signalled by hand.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Lake Shore & Michigan Southern R'y at Carlton.
Wabash R. R. at Romulus.
Michigan Central R. R., main line, at Wayne.
Michigan Central R. R., Bay City division, at Otter Lake, Vassar, Bay City 2, Saginaw Junction and Saginaw, W. S.
Michigan Central R. R., Saginaw division, at Saginaw, W. S., and Mershon.
Michigan Central R. R., belt line, at Bay City.
Detroit, Lansing & Northern R. R. at Plymouth.
Grand Trunk R'y, Michigan Air Line division, at Wixom, Port Huron and Grand Trunk Junction.
Detroit, Grand Haven & Milwaukee R'y at Holly.
Chicago & Grand Trunk R'y at Flint.
Cincinnati, Saginaw & Mackinaw R. R. at Saginaw, E. S., and Mershon.
Toledo, Ann Arbor & North Michigan R'y at Clare.
Grand Rapids & Indiana R. R. at Reed City.
Lake County R. R. at Manistee Junction.
Manistee & Luther R. R. at East Lake.
Chicago & West Michigan R'y at Baldwin.
Manistee & Northeastern R. R. at Manistee.
Pontiac, Oxford & Northern R. R. at Clifford.

What railroads cross your road either over or under your grade in this State, and where?
Over:
Manistee & Grand Rapids R. R. at Stronach.
Under:
Michigan Central R. R. at Springwells.

At what crossings are interlocking and derailing switches in operation?
Michigan Central at Wayne, Mershon, 3 places in Saginaw and 3 places in Bay City.
Cincinnati, Saginaw & Mackinaw at Mershon, 3 places in Saginaw, junction of Bay City branch and main line Saginaw.
Toledo, Ann Arbor & North Michigan at Clare.
Chicago & West Michigan at Baldwin.
Manistee & Northeastern at Manistee.

What pattern or patterns have you adopted?
Use Allentown, Union Switch & Signal Co., and Gravitt.

Number of crossings of highways at grade in this State	783
Number of crossings of highways at grade in this State at which there are gates or flagmen	28
Number of crossings at which there are electric or automatic signals	1

What pattern or patterns in use?
O'Neill's electric.

Number of crossings of highways over or under railroad (over 2, under 9)	12
Number of highway bridges 18 feet above track	3
Number of highway bridges less than 18 feet above track	None.

Have safety guards been erected at over-head obstructions?
Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
With the Hart guard and blocks.

Stations.

Number of stations on whole line	140
Same in Michigan	140

Employés.

Number persons regularly employed on all roads operated by company, including officials.	2,013
Same in Michigan	2,013

Classify your employés as per following list:	Number.
Baggagemen	27
Brakemen	178
Conductors	77
Engineers	114
Firemen	112
Laborers	499
Shopmen	291
Yardmen	125
Others	590

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	669.95

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Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:

Midland	3
Clare	17
Isabella	4½
Mason	9¾
Lake	12
Manistee	5
Osceola	½
Huron	6¾
Sanilac	3
Gladwin	6
Total miles required	67½

Road Bed and Track.

Number of track sections in Michigan	117
Average length of sections (miles)	5½
Average number of men in each section gang	4
Number of new ties put in whole line during the year	230,423
Number of new ties put in track in Michigan	230,423
Average number of new ties per mile of road	298
New rails put in track:	
258.56 tons, steel (2.40 miles), 67 lb per yard.	
1,279.36 tons, steel (14.54 miles), 56 lb per yard.	
Total miles of track laid with new rails	16.94

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	None.
Timber culverts replaced during the year:	
With iron pipe,—number	None.
With sewer pipe,—number	10
With timber,—feet, B. M.	156,204

New bridges built during the year: 6.

Location.	Kind.	Material.	Month built.	Feet in length.
Redford	Pile trestle	Wood	September	33
Redford	Pile trestle	Wood	September	33
Springwells	Pile trestle	Wood	September	33
Springwells	Pile trestle	Wood	September	46
Springwells	Deck girder	Wood and iron	October	5,005
Delray	Pile trestle	Wood	October	221
Total				5,371

ROLLING STOCK.

		Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		91	$568,750 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender		13	61,750 00
Total		104	$630,500 00
Number of passenger cars—12 wheel, including official cars		2	$10,000 00
Number of passenger cars—6 wheel, including official cars		94	188,000 00
Number of express and baggage cars		22	17,600 00
Number of box freight cars		1,847	277,050 00
Number of stock cars		43	4,300 00
Number of platform cars		1,214	157,820 00
Number of ore cars		218	24,250 00
Number of conductors' way cars		54	10,500 00
Other cars as follows:			
Log	100		
Charcoal	65		
Furniture	75		
Refrigerator	10		
Boarding	6		
Derrick	1		
Pile driver	1		
Excavators	2		
Snow plows	8		
Tool car	1		
		269	51,100 00
Total		3,783	$740,620 00

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Number of locomotives equipped with power brakes	52
Number of passenger train cars equipped with power brakes	118
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use and number of locomotives and cars with each?
50 locomotives equipped with Westinghouse Automatic.
2 locomotives equipped with New York Air Brake Co's Automatic.
All passenger train cars are equipped with Westinghouse Automatic.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
M. C. B. type.

How are your passenger cars heated?
Baker and Peter Smith hot water safety heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	1,134,039
Miles run by freight trains during the year	1,273,087
Total mileage of trains earning revenue	2,407,126

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	20,688		
Number of local passengers carried	1,218,591		
Total number of passengers carried	1,239,279		
Total passenger mileage or passengers carried one mile		32,818,739	
Average distance traveled by each passenger		26	
Average amount received from each passenger			$0 63.000
Average rate of fare per mile for through passengers			02.168
Average rate of fare per mile for local passengers			02.384
Average rate of fare per mile for all passengers			02.372

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	241,859		
Number of tons of local freight carried	1,576,189		
Total tons of freight carried	1,817,998		
Total mileage of through freight		44,805,659	
Total mileage of local freight		122,041,987	
Total freight mileage or tons carried one mile		166,847,646	
Average ton haul for through freight		185	
Average ton haul for local freight		77	
Average ton haul for all freight		92	
Average amount received for each ton haul			$0 90.900
Average rate per ton per mile received for through freight			00.577
Average rate per ton per mile received for local freight			01.142
Average rate per ton per mile received for all freight			00.990

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	87,809
Flour	135,355
Provisions (beef, pork, lard, etc.)	59,098
Animals	17,758
Other agricultural products	36,785
Lumber and forest products	1,099,580
Coal	20,680
Plaster, lime and cement	13,596
Salt	62,787
Petroleum	7,931
Railroad iron, iron and steel rails Pig and bloom iron Other iron and castings	17,631
Ores	156
Stone, brick and sand	11,055
Manufactures—articles shipped from point of production	50,407
Merchandise and other articles not enumerated above	129,246
Total forwarded	1,749,869

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	91,277	5.02
Flour	136,206	7.49
Provisions (beef, pork, lard, etc.)	60,616	3.33
Animals	17,334	.98
Other agricultural products	38,638	2.13
Lumber and forest products	1,100,708	60.54
Coal	38,486	2.11
Plaster, lime and cement	16,566	.91
Salt	62,788	3.45
Petroleum	12,502	.69
Railroad iron, iron and steel rails, Pig and bloom iron, Other iron and castings	27,548	1.52
Ores	156	.01
Stone, brick and sand	11,186	.62
Manufactures—articles shipped from point of production	54,438	3.00
Merchandise and other articles not enumerated above	149,004	8.20
Total tons carried	1,817,998	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run over your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company pays $30,975 per annum for tonnage equal to 10,000 pounds; average haul 262 miles daily; general express business; handles its own freight at depot.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

Western Union Telegraph Co., 602.86 miles.
Flint & Pere Marquette R. R. Co., 5 miles.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Illinois; mileage, 3 cents per mile; amount paid, $497.31.

Fast Freight Lines,

To what fast freight lines or other transportation companies, running cars upon your road not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

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Name of company.	Amount paid.
American Refrigerator Transit Co.	$15 26
Armour Refrigerator Line	16 52
Arms Palace Horse Car Co.	4 15
Anglo-American Provision Co.	12 14
American Tank Line	2 04
American Live Stock Transportation Co.	2 39
Blue Line	8,225 97
Burton Stock Car Co.	5 19
J. G. Brill, & Co.	3 48
California Fruit Transportation Co.	1 92
Canada Southern Line	3,021 80
Columbus & Hocking Coal & Iron Co.	1 25
Chicago Refrigerator Car Co.	66 49
Commercial Express Line	227 89
Canada Pacific Dispatch	7 66
Canada Cattle Car Co.	1 59
Chicago Car & Coal Co.	36 42
Crystal Oil Works	16 53
Empire Line	3,349 35
Erie Dispatch Line	60 30
Eagle Consolidated Refining Co.	5 79
Frazer Lubricator Co.	118 04
Freedom Oil Works	1 99
Great Eastern Line	2,139 43
Genesee Oil Works	5 45
Hammond Refrigerator Line	105 31
Iron Car Express & Coal Line	67 12
Independent Refining Co.	87
Kansas City Dressed Beef Line	5 54
Kanawha Valley Rolling Stock Co.	86
Live Poultry Transportation Co.	64
Manhattan Oil Co.	20 52
Morris Refrigerator Line	1 71
Merchants' Dispatch	3,611 27
Midland Line	95 44
Michigan Salt Line	7 31
National Dispatch	1,776 26
Nelson, Morris & Co.	1 71
Pittsburgh & Toledo Dispatch	8 05
Pullman Palace Car Co.	6 18
Paragon Refining Co.	44 01
Red Line	3,875 44
Rend, W. P., & Co.	15 66
Southern Dispatch Lumber Car Line	1 71
Swift Refrigerator Cars	64 78
Somer's Coal Co.	5 99
Street's Stable Car Line	6 10
St. Charles Car Co.	9 05
Southern Iron Car Co.	7 43
Sun Oil Co., Toledo	90 84
Union Tank Line	558 80
St. Louis Refrigerator Car Co.	12 02
Thatcher, A. T., Coal Co.	1 25
Union Line	798 49
White Line	93 04
Wick's Bros.	2 81
Wells & Clear	1 74
Total	$28,657 39

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

January 19, Harry Hale, trespasser, Ludington. Boarding moving train.
February 6, Jeremiah Carpenter, brakeman, Saginaw. Falling from train; his own carelessness.
April 29, Frank McCubbie, brakeman, Wingleton. Falling from train; his own carelessness.
May 7, Jno. F. Rooney, trespasser, Reed City. Stepped in front moving train.

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June 8, Fred Mohr, trespasser, Saginaw. Run over by car started on grade while playing.
July 14, Abram McCain, trespasser, Milford. Walking on track; company not responsible.
September 12, Helen M. White, 16 months child, Sand Beach. Sitting on track; fault of parents.
September 30, Mrs. Delaney Moon, Reed City. Attempting to cross in front of train; own fault.
October 1, Harmon Luice, trespasser, Freeland. Walking on track; own fault.
November 4, Wadislans Kowalsky, trespasser, Saginaw. Struck by train; own fault.
November 7, Louis Manby, Indian, trespasser, Custer. Asleep on track.
December 24, Jno. W. Judd, brakeman, Evart. Collision; accidental.

INJURED.

January 25, Jno. McDonald, brakeman, Saginaw. Coupling; his own fault.
January 28, Chas. Neiple, brakeman, Reed City. Coupling; his own fault.
January 28, Angus McLay, brakeman, Flint. Coupling; his own fault.
January 30, Ora Brewster, brakeman, Saginaw. Coupling; his own fault.
February 1, Chas. Nagle, brakeman, Averill. Coupling; his own fault.
February 3, George Jannefield, brakeman, Port Huron. Coupling; his own fault.
February 16, Dugal Smith, brakeman, Dorr. Coupling; his own fault.
February 25, J. E. Allen, yardmaster, Ludington. Coupling; his own fault.
March 4, George Williams, conductor, Freesoil. Coupling; his own fault.
March 21, Richard Toombs, switchman, Saginaw. Coupling; his own fault.
April 2, Hiram King, switchman, Saginaw. Coupling; his own fault.
April 2, Herbert Malcolm, farmer, Coleman. Collision; carelessness of employes.
April 8, John Stewart, brakeman, Wayne. Coupling; his own fault.
April 8, John Anderson, lumberman, Wingleton. Attempting to board train; his own fault.
April 13, W. H. Jones, switchman, Saginaw. Coupling; his own fault.
April 11, Albert Green, trespasser, Holly. Playing near track, and pushed under train by playmate.
April 23, A. Catlin, switchman, Bay City. Coupling; his own fault.
May 1, Herman Kruse, trespasser, Flint. Stealing ride.
May 18, Henry W. Goodrich, switchman, Ludington. Coupling; his own fault.
June 17, Henry Smith, child two years old, Scottville. Struck by engine while sitting on track.
July 4, A. Cummings, trespasser, Saginaw. Asleep on track.
July 6, Frank Millen, passenger, Flint. Finger pinched in closet door; his own fault.
July 6, R. K. Clancey, brakeman, Palms. Fell from train; his own fault.
July 22, James Kelly, conductor, Clare. Falling from car; his own fault.
July 27, Sebastian Roth, sectionman, Minden City. Falling from hand car; his own fault.
September 30, Mrs. Josephine Shuplot, Reed City. Driving in front of moving train; own fault.
October 13, Jno. Hines, switchman, Saginaw. Coupling; his own fault.
October 13, Thomas Russell, passenger, Saginaw. Jumping from train; own fault.
November 27, Eli Lentz, brakeman, Bay City. Coupling; own fault.
December 14, Jas. Schermerhorn, brakeman, Reed City. Fell from train; own fault.
December 17, Mrs. Anna McIntosh, Saginaw. Struck at crossing; own fault.
December 25, Mrs. Wm. Turver, Flint. Struck at crossing; own fault.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		1		1	1	
Coupling cars					16	
Derailments						
Falling from trains		2		1	4	1
Frogs						
Getting on and off trains			1	1		
Highway crossings			1			3
Miscellaneous						
Overhead obstructions						
Trespassers on trains						1
Trespassers on tracks			7			3
Total		3	9	3	21	8

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	12
Number of persons injured during the year	32
Number of casualties purely accidental	4
Number resulting from lack of caution, carelessness or misconduct	25
Persons killed or injured while intoxicated	2
Trespassers and tramps killed or injured	11

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	8	11	14
Conductors		2	2
Engineers			
Firemen			
Laborers		1	1
Shopmen			
Yardmen		7	7
Not classified above			
Total	8	21	24

STATE OF MICHIGAN, } ss.
COUNTY OF SAGINAW. }

Wm. H. Baldwin, Jr., gen'l man'gr, and Gilbert W. Ledlie, auditor, of the Flint & Pere Marquette Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. H. BALDWIN, JR.
GILBT W. LEDLIE.

Subscribed and sworn to before me this 23d day of April, A. D., 1892.
[L. S.]

EDWIN SAUNDERS,
Notary Public.

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ANNUAL REPORT

OF THE

FRANKFORT & SOUTHEASTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 25, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HENRY DAY, New York, N. Y.
Vice President and Secretary, D. B. BUTLER, Frankfort, Mich.
Auditor, D. M. WEGNER, Frankfort, Mich.
Treasurer, S. W. McCALL, Boston, Mass.
General Superintendent, ARTHUR WARD, Frankfort, Mich.

DIRECTORS.

HENRY DAY, New York, N. Y.
B. F. LINCOLN, Lyndon, Vermont.
ALBERT C. HALL, New York, N. Y.
S. W. McCALL, Boston, Mass.
D. B. BUTLER, Frankfort, Mich.
Terms expire June 3, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—December 2, 1885.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	1
Amount of full paid stock held in Michigan at same date	$500 00
Date of annual meeting of stockholders—First Wednesday in June.	
Fiscal year of company ends December 31.	
General offices of the company are located at Frankfort, Mich.	

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$34,149 63
Total expenses, including taxes	$20,725 66	
Net income		$13,423 97
Interest on funded debt	$15,180 00	
Balance for the year	$1,756 03	
Balance (profit and loss) last year	621 23	
Balance forward to next year		2,377 26
	$2,377 26	$2,377 26

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$100,000 00
Par value of shares	$100 00	
Number of shares issued	571	
Amount paid in on common	$57,100 00	
Total amount paid in as per books of the company		$57,100 00
Paid in per mile of road owned by company (miles 24.75)		$2,307 07

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage gold bonds, July, 1889.	6%	1919	New York	$235,000 00
First mortgage gold bonds, Sept., 1890.	6%	1919	" "	18,000 00
Total funded debt				$253,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For miscellaneous	Including taxes and unpaid int. Paid from earnings.	$9,855 44
For current balances		1,502 30
Total unfunded debt		$11,357 74

RECAPITULATION.

Total funded debt		$253,000 00
Total unfunded debt		11,357 74
Total debt liabilities		$264,357 74
Amount of debt liabilities per mile of road (24.75 miles)		$10,681 12
Total amount of stock and debt		321,457 74
Stock and debt per mile of road (24.75 miles)		12,988 19

GENERAL BALANCE SHEET.—Dr.

Construction account	$271,127 35	
Equipment account	38,910 35	
		$310,037 70
Cash items:		
Cash	$7,581 11	
Bills receivable	200 00	
Due from agents	535 78	
		$8,316 89
Other assets:		
Debit balances from companies and individuals		725 89
Profit and loss		2,377 26
Total		$321,457 74

GENERAL BALANCE SHEET.—Cr.

Capital stock	$57,100 00	
Funded debt	253,000 00	
		$310,100 00
Unfunded debt:		
Interest unpaid	$7,590 00	
Vouchers and accounts	423 79	
Other liabilities:		
Pay rolls	1,158 66	
Taxes	682 99	
Due foreign roads for traffic balances	1,502 30	
		11,357 74
Total		$321,457 74

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$310,037 70
Average cost per mile of road (not included in sidings, 22.50 miles)	13,779 44
Proportion of cost for Michigan	310,037 70

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CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line:	
Clearing right of way	$172 40
Right of way deeds	873 40
New buildings	175 22
New fences	94 97
Machinery and tools	132 80
Telegraph line	511 61
Total	$1,960 40
Total charges to property account as above	$1,960 40
Property sold and credited	2,299 33
Net credit to property account	338 93

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$8,731 43	
Through fares	2,406 90	
Total passenger fares	$11,138 33	
Express and baggage	375 23	
Mails	1,068 76	
Total passenger department earnings		$12,582 32
Proportion for Michigan	$12,582 32	
Per train mile	56.046	
Per mile of road	509 40	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$17,891 48	
Through traffic	3,980 75	
Total freight department earnings		$21,872 23
Proportion for Michigan	$21,872 23	
Per train mile	84.142	
Per mile of road	865 27	
Total transportation earnings		$33,954 55
Transportation earnings per mile of road	1,374 67	
Transportation earnings per train mile	70.96	
Miscellaneous receipts from operating account other than for transportation as follows:		
From other sources	195 08	
		195 08
Total earnings from operation of road		$34,149 63
Total earnings per mile of road	$1,382 57	
Total earnings per train mile	71.37	
Proportion of taxable earnings for Michigan		34,149 63
Total taxable earnings per mile of road in Michigan	1,382 57	
Total income from all sources		$34,149 63
Proportion of income for Michigan		$34,149 63

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,497 71
Renewals of ties	187 55
Repairs of bridges, including culverts and cattle guards	9 98
Repairs of fences, road crossings and signs	47 68
Repairs of buildings	326 63
Total	$5,069 55

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$435 68
Repairs of passenger cars	126 17
Repairs of freight cars	147 97
Total	$709 82

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,345 05
Water supply	300 96
Oil and waste	368 48
Locomotive service	2,599 22
Passenger train service	859 22
Passenger train supplies	28 35
Mileage of passenger cars	6 00
Freight train service	687 62
Freight train supplies	3 35
Mileage of freight cars	129 57
Telegraph expenses (maintenance and operating)	16 31
Damage and loss of freight and baggage	10 89
Damages to property and cattle	40 00
Agents and station service	2,797 71
Station supplies	58 18
Total	$10,250 91

GENERAL EXPENSES.

Salaries of the general officers of the company	$2,404 52
Salaries of clerks in general offices	271 00
Insurance	342 75
Stationery and printing	524 06
Outside agencies and advertising	58 56
Contingencies	396 50
Taxes	682 99
Special taxes	15 00
Total	$4,695 38

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	24.46	$5,069 55
Maintenance of motive power and cars	3.43	709 82
Conducting transportation	49.96	10,250 91
General expenses, including taxes	22.65	4,695 38
Total operating expenses and taxes	100.00	$20,725 66
Operating expenses and taxes per mile of road (24.70 miles)		$839 09
Operating expenses and taxes per train mile run, for trains earning revenue (47,350 miles)		43.31
Proportion of operating expenses and taxes for Michigan		20,725 66
Percentage of expenses to earnings	60.69	
Net earnings per mile of road		543 48
Net earnings per train mile		28.05

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Frankfort to Copemish, November 25, 1889.

MAIN LINE.

	Miles.
In Michigan, from Frankfort, Mich., to a point near Thompsonville, Mich	22.50
Total length completed	22.50

BRANCHES.

South Frankfort, from main line to South Frankfort	.25
Total length of branches owned by company	.25
Total length of branches owned by company in Michigan	.25
Total length of road belonging to this company	22.75
Total length of road belonging to this company in Michigan	22.75
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	2.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	24.75

Gauge of track, 4 feet 8½ inches.

Proprietary or leased roads operated by this company.

Name, description and length of each:

	Total miles.	In Michigan.
From south end of main line at point near Thompsonville, Mich., to Copemish, Mich., owned by Toledo, Ann Arbor & North Michigan R'y	2.20	
Total	2.20	2.20
Total miles operated by this company	26.95	26.95

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	1	28
Wooden trestles	3	410
Total	4	438

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Chicago & West Michigan R'y at Thompsonville, Mich.

What railroads cross your road either over or under your grade in this State and where?
None.

At what crossings are interlocking and derailing switches in operation?
Chicago & West Michigan crossing at Thompsonville, Mich.

What pattern or patterns have you adopted?
Gavett.

Number of crossings of highways at grade in this State	22
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Number of crossings of highways over or under railroad	None.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Wooden blocks, spiked.

Stations.

Number of stations on whole line	11
Same in Michigan	11

Employés.

Number persons regularly employed on all roads operated by company, including officials	85
Same in Michigan	85

Classify your employés as per following list:

	Number.
Baggagemen	1
Brakemen	2
Conductors	2
Engineers	2
Firemen	2
Laborers	22
Shopmen	1
Others	3

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	23

Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:

Benzie county	22

Road Bed and Track.

Number of track sections in Michigan	4
Average length of sections (miles)	6
Average number of men in each section gang	3
Number of new ties put in whole line during the year	1,278
Number of new ties put in track in Michigan	1,278

New rails put in track:
None.

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ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$14,000 00
Total	2	$14,000 00
Number of passenger cars— 8 wheel, including official cars	2	$6,000 00
Number of box freight cars	2	900 00
Number of platform cars	37	12,000 00
Total	41	$18,900 00

Number of locomotives equipped with power brakes ..... None.
Number of passenger-train cars equipped with power brakes 2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse automatic air brake, cars 2.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

How are your passenger cars heated?
Wood burning stoves.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	17,250
Miles run by freight trains during the year	15,000
Miles run by mixed trains	15,600
Total mileage of trains earning revenue	47,850

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	5,029		
Number of local passengers carried	29,703		
Total number of passengers carried	34,732		
Total passenger mileage, or passengers carried one mile	415,873		
Average distance traveled by each passenger		12	
Average amount received from each passenger			$0 32.00
Average rate of fare per mile for through passengers			02.29
Average rate of fare per mile for local passengers			02.81
Average rate of fare per mile for all passengers			02.68

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	5,745		
Number of tons of local freight carried	47,880		
Total tons of freight carried	53,625		
Total mileage of through freight	123,271		
Total mileage of local freight	667,131		
Total freight mileage or tons carried one mile	790,402		
Average ton haul for through freight		21.45	
Average ton haul for local freight		13.93	
Average ton haul for all freight		14.74	
Average amount received for each ton haul			$0 39.81
Average rate per ton per mile received for through freight			03.23
Average rate per ton per mile received for local freight			02.60
Average rate per ton per mile received for all freight			02.70

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	164	.305
Flour	228	.425
Provisions (beef, pork, lard, etc.)	48	.089
Animals	25	.046
Other agricultural products	1,007	2.102
Lumber and forest products	49,754	92.781
Coal	4	.007
Plaster, lime and cement	27	.050
Salt	8	.014
Petroleum	60	.111
Iron and castings	373	.609
Stone, brick and sand	268	.499
Manufactures—articles shipped from point of production	196	.365
Merchandise and other articles not enumerated above	1,393	2.597
Total tons carried	53,625	100.000

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

The American Express Company; does a general express business; handles its own freight and pays one and one-half times first-class freight rates per hundred pounds for transporting same.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

22.50 miles, owned jointly by the company and Western Union Telegraph Co.
2.20 miles, owned by Postal Telegraph Co.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

None.

INJURED.

None.

STATE OF MICHIGAN, } ss.
COUNTY OF BENZIE. }

Henry Day, president, and D. B. Butler, secretary, of the Frankfort & Southeastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

HENRY DAY.
D. B. BUTLER.

Subscribed and sworn to before me this 25th day of March, A. D. 1892, as to D. B. Butler.

[L. S.]

E. R. CHANDLER,
Notary Public.

Subscribed and sworn to before me this 21st day of April, A. D., 1892, as to Henry Day, president.

[L. S.]

LUCIUS H. BEERS,
Commissioner for Michigan in New York.

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ANNUAL REPORT

OF THE

MANISTEE & NORTHEASTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 30, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, EDWARD BUCKLEY, Manistee, Mich.
Secretary, WM. J. LAW, Manistee, Mich.
Auditor and Treasurer, WM. J. LAW, Manistee, Mich.
General Manager, EDWARD BUCKLEY, Manistee, Mich.
General Superintendent, WM. DOUGLAS, Manistee, Mich.
Assistant General Superintendent, EDWARD McFADGEN, Manistee, Mich.
Chief Engineer, J. J. HUBBELL, Manistee, Mich.
General Passenger and Freight Agent, F. A. MITCHELL, Manistee, Mich.

DIRECTORS.

EDWARD BUCKLEY, Manistee, Mich.
WM. DOUGLAS, Manistee, Mich.
WM. J. LAW, Manistee, Mich.
CHAS. G. WILSON, Manistee, Mich.
T. J. ELTON, Manistee, Mich.
Terms expire January 7, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 12, 1887.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$30,000 00

Date of annual meeting of stockholders,—January 7.
Fiscal year of company ends December 31.
General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$115,041 09
Total expenses, including taxes	$80,051 85	
Net income		$34,989 74
Interest on unfunded debt	$73,950 75	
Balance for the year	$38,961 01	
Balance (profit and loss) last year	60,830 72	
Balance forward to next year		$99,791 73

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$600,000 00
Par value of shares	$100 00		
Number of shares issued	6,000		
Amount paid in on common		$30,000 00	
Total amount paid in as per books of the company			$30,000 00
Paid in per mile of road owned by company—miles 69.61			$430 85

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction	Same to be funded at some subsequent time	$1,117,357 43
For equipment		154,649 01
For real estate		$2,460 25
Total unfunded debt		$1,304,466 69

RECAPITULATION.

Total unfunded debt		$1,304,466 69
Total debt liabilities		$1,304,466 69
Amount of debt liabilities per mile of road (69.71 miles)		$18,739 64
Total amount of stock and debt		1,334,466 69
Stock and debt per mile of road (69.61 miles)		19,170 62

GENERAL BALANCE SHEET.—Dr.

Construction account	$1,080,025 95	
Equipment account	154,649 01	
		$1,234,674 96
Balance		99,791 73
Total		$1,334,466 69

GENERAL BALANCE SHEET.—Cr.

Capital stock	$30,000 00
Unfunded debt	1,304,466 69
Total	$1,334,466 69

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$1,234,674 96
Average cost per mile of road, not including sidings (59.61 miles)	20,712 05
Proportion of cost for Michigan	1,234,674 96

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$26,927 74	
Through fares	8,577 17	
Total passenger fares	$35,504 91	
Express and baggage	823 25	
Mails	2,578 41	
Total passenger department earnings		$38,906 57

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Proportion for Michigan	$88,906 57	
Per train mile	53	
Per mile of road	652 70	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$63,449 18	
Through traffic	12,361 96	
Total traffic	$75,811 14	
Total freight department earnings		$75,811 14
Proportion for Michigan	$75,811 14	
Per train mile	92	
Per mile of road	1,271 78	
Total transportation earnings		$114,717 71
Transportation earnings per mile of road (average 60 miles)	$1,911 96	
Transportation earnings per train mile	74	
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph		323 38
Total earnings from operation of road		$115,041 09
Total earnings per mile of road	$1,917 85	
Total earnings per train mile	74	
Proportion of earnings for Michigan	115,041 09	

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$13,271 63
Repairs of bridges, including culverts and cattle guards	1,918 26
Repairs of fences, road crossings and signs	64 89
Repairs of buildings	197 28
Total	$15,447 06

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$7,351 88
Repairs of passenger cars	2,494 82
Repairs of freight cars	2,826 05
Total	$12,672 25

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$10,165 20
Water supply	364 99
Oil and waste	1,255 16
Locomotive service	10,062 95
Passenger train service	2,897 48
Passenger train supplies	413 69
Freight train service	6,630 63
Freight train supplies	251 26
Mileage of freight cars	305 47
Telegraph expenses (maintenance and operating)	1,461 46
Damages to property and cattle	525 92
Agents and station service	7,593 96
Station supplies	447 64
Total	$42,374 81

GENERAL EXPENSES.

Salaries of the general officers of the company	$4,967 72
Salaries of clerks in general offices	
Law expenses	752 08
Insurance	749 75
Stationery and printing	1,054 67
Outside agencies and advertising	217 69
Taxes	1,815 32
Total	$9,557 23

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	19.29	$15,447 06
Maintenance of motive power and cars	15.84	12,672 25
Conducting transportation	52.93	42,374 81
General expenses, including taxes	11.94	9,557 23
Total operating expenses and taxes	100.00	$80,051 35

Operating expenses and taxes per mile of road (average 60 miles)		$1,334 18
Operating expenses and taxes per train mile run, for trains earning revenue, 154,212 miles		51.91
Proportion of operating expenses and taxes for Michigan		80,051 35
Percentage of expenses to earnings	60.58	
Net earnings per mile of road (average 60 miles)		533 16
Net earnings per train mile (154,212 miles)		22.68

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Manistee, Mich., to Lake Ann, Mich., October 13, 1890.
From main line to Onekama, Mich., January 14, 1889.
From main line to Peters' camp, May 1, 1890.

MAIN LINE.

	Miles.
In Michigan, from Manistee to Lake Ann	51.90
Total length completed	51.90

BRANCHES.

Onekama, from main line to Onekama	2.71
Bear Creek, from main line to Peters' camp	5.00
Total length of branches owned by company	7.71
Total length of branches owned by company in Michigan	7.71
Total length of road belonging to this company	59.61
Total length of road belonging to this company in Michigan	59.61
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	10.00
Aggregate length of tracks in Michigan belonging to this company computed as single track	69.61

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	10	482
Wooden trestles	3	1,580
Total	13	2,062

Draw Bridges in Michigan.

How many on your line? 1

Where located, when built, and length of draw span:
At Manistee, over the Manistee river; built in 1888; draw span 160 feet.

Character of structure?
Howe truss.

Material of which constructed?
Wood and iron.

Height above water, and depth of water under bridge?
12 feet—14 feet.

How swung, by engine or hand power?
Hand.

Approaches straight or curved?
Curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled?
Yes; by a Gravitt derailing and semaphore.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and in what locality?

Flint & Pere Marquette R. R. at Manistee.
Chicago & West Michigan R'y at Manistee Crossing.
Toledo, Ann Arbor & North Michigan R'y at Copemish.
Chicago & West Michigan R'y at Interlochen and at Bear Creek Branch crossing.

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What railroads cross your road either over or under your grade in this State?
None.

At what crossings are interlocking and derailing switches in operation?
Flint & Pere Marquette R. R. at Manistee.
Chicago & West Michigan R'y at Manistee crossing, Interlochen and Bear Creek Branch crossing.

What pattern or patterns have you adopted?
Gravitt.

Number of crossings of highways at grade in this State	46
Number of crossings of highways at grade in this State at which there are gates or flagmen	2
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad	None.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Mostly wood; some with steel.

Stations.

Number of stations on whole line	10 regular, 8 flag
Same in Michigan	10 regular, 8 flag

Employés.

Number persons regularly employed on all roads operated by company, including officials. 137

Classify your employés as per following list:

	Number.
Baggagemen	8
Brakemen	15
Conductors	7
Engineers	7
Firemen	7
Laborers	45
Shopmen	8
Yardmen	5
Others	40

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you? 87

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:

Manistee	50
Benzie	11
Grand Traverse	22
Total miles required	83

Road Bed and Track.

Number of track sections in Michigan	7
Average length of sections (miles)	7
Average number of men in each section gang	5
Number of new ties put in line during the year	None.

New rails put in track: 74 new rails put in.

Bridges and Culverts.

Amount of trestle work replaced with earth during the year	None.
Timber culverts replaced during the year	None.

New bridges built during the year,—Number:

Location.	Kind.	Material.	Month built.	Feet in length.
One mile west of Chief Lake	Pile trestle	Wood	Nov. and Dec.	1,100

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ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	6	$31,920 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	4,875 00
Total	7	$36,795 00
Number of passenger cars—12 wheel, including official cars	3	10,800 00
Number of express and baggage cars	2	4,050 00
Number of box freight cars	5	1,225 00
Number of platform cars	175	63,048 50
Number of conductors' way cars	3	1,650 00
Other cars as follows:		
Snow plow	1	740 00
Construction, 2; hand, 7	9	465 00
Total	198	$118,773 50

Number of locomotives equipped with power brakes	7
Number of passenger train cars equipped with power brakes	5
Number of freight cars equipped with power brakes	2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
American Steam, 2 locomotives; Westinghouse Air, 5 locomotives, 7 cars.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
McCray and Dowling.

How are your passenger cars heated?
The Baker hot water heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	72,372
Miles run by freight trains during the year	81,840
Total mileage of trains earning revenue	154,212

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	28,193		
Number of tons of local freight carried	225,685		
Total tons of freight carried	253,878		
Total mileage of through freight	592,584		
Total mileage of local freight	5,000,524		
Total freight mileage, or tons carried one mile	5,593,108		
Average ton haul for through freight		21	
Average ton haul for local freight		22.15	
Average ton haul for all freight		22.03	
Average amount received for each ton haul			$0 29.86
Average rate per ton per mile received for through freight			.020
Average rate per ton per mile received for local freight			.012
Average rate per ton per mile received for all freight			.013

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	342
Flour	147
Provisions (beef, pork, lard, etc.)	271
Animals	124
Other agricultural products	1,510
Lumber and forest products	217,540
Coal	3,849
Plaster, lime and cement	40
Salt	55
Petroleum	135
Iron and castings	72
Stone, brick and sand	465
Manufactures—articles shipped from point of production	207
Merchandise and other articles not enumerated above	1,928
Total forwarded	225,685

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	802	.32
Flour	496	.20
Provisions (beef, pork, lard, etc.)	366	.14
Animals	223	.09
Other agricultural products	2,209	.87
Lumber and forest products	234,765	92.47
Coal	7,918	3.12
Plaster, lime and cement	56	.02
Salt	710	.28
Petroleum	202	.08
Railroad iron, iron and steel rails	444	.17
Pig and bloom iron	78	.03
Other iron and castings	365	.14
Stone, brick and sand	465	.18
Manufactures—articles shipped from point of production	329	.13
Merchandise and other articles not enumerated above	4,451	1.76
Total tons carried	253,878	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. On merchandise we are allowed 1½ our first-class freight rate. On produce 1 1-10 our first-class freight rate. A general transportation business same as on any other railroad. Freight taken at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

57.42. Manistee & Northeastern R. R. Co.

Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Great Eastern Line	Montreal, Canada	$1 89
Merchants' Dispatch	New York City	1 09
National Dispatch	St. Albans, Vt.	7 19
Commercial Express	Montreal, Canada	1 70
Blue Line	Rochester, N. Y.	15 47
Canadian Pacific Dispatch	Montreal, Canada	75
N. Y. C. & H. R. Erie Dispatch	New York City	5 57
Red Line	New York City	10 77
Red Line Transit Co.	New York City	1 91
White Line Transit Co.	New York City	99
West Shore Nickel Plate Line	New York City	1 81
Pennsylvania Railroad Union Line	Pittsburg, Pa.	5 76
Baltimore & Ohio F. F. L.	Baltimore, Md.	16 22
Chicago, Hocking Valley & Toledo	Columbus, Ohio	17 29
Total		$88 41

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

November 27, Charles Wyman, engineer, Maple Grove (flag station). Leaving his engine contrary to all rules and regulations of this company to stake cars, and being caught between stake and flat car, from the injuries of which he died on November 28, 1891; purely accidental.

INJURED.

None.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars						
Derailments						
Falling from trains						
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous		1				
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total		1				

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of casualties purely accidental	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors			
Engineers	1		1
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total	1		1

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

Edward Buckley, president, and William J. Law, secretary, of the Manistee & Northeastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

EDWARD BUCKLEY.
WILLIAM J. LAW.

Subscribed and sworn to before me this 28th day of April, A. D. 1892.
[L. S.]

JOHN W. SIBBEN,
Notary Public.

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ANNUAL REPORT

OF THE

LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY CO.,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, O.
Vice President and Secretary, E. D. WORCESTER, New York, N. Y.
Auditor, C. P. LELAND, Cleveland, O.
Treasurer, E. D. WORCESTER, New York, N. Y.
General Manager, JOHN NEWELL, Cleveland, O.
General Superintendent, W. H. CANNIFF, Cleveland, O.
Assistant General Superintendent, P. L. BLODGETT, Cleveland, O.
Division Superintendents, S. S. HAND, Detroit, Mich.; A. H. SMITH, Hillsdale, Mich.; A. B. NEWELL, Grand Rapids, Mich.; T. F. WHITTELSEY, Toledo, O.
Chief Engineer, E. A. HANDY, Cleveland, O.
Superintendent of Telegraph, WM. KLINE, Toledo, O.
Local Treasurer, N. BARTLETT, Cleveland, O.
General Passenger Agent, A. J. SMITH, Cleveland, O.
General Freight Agent, J. T. R. McKAY, Cleveland, O.
Attorney, GEO. C. GREENE, Cleveland, O.

DIRECTORS.

FRED'K W. VANDERBILT, New York.
JOHN E. BURRIN, New York.
E. D. WORCESTER, New York.
JOHN NEWELL, Cleveland, O.
JOHN DE KOVEN, Chicago, Ill.
Terms expire May, 1892.
CORNELIUS VANDERBILT, New York.
DARIUS O. MILLS, New York.
RASSELAS BROWN, Warren, Pa.
Terms expire May, 1893.
WM. K. VANDERBILT, New York.
SAM'L F. BARGER, New York.
H. McK. TWOMBLY, New York.
CHAS. M. REID, Erie, Pa.
Terms expire May, 1894.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—1846.

Number of stockholders at date of last election	3,436
Number of stockholders in Michigan at same date	28
Amount of full paid stock held in Michigan at same date	$22,750 00

Date of annual meeting of stockholders—First Wednesday in May.
Fiscal year of company ends—December 31.
General offices of the company are located at Cleveland, Ohio.

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GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$21,431,286 68
Total expenses, including taxes		$14,632,675 38	
Net income			$6,798,711 30
Interest on funded debt	$3,204,370 00		
Interest on guaranteed stock	53,350 00		
Rentals of leased lines	557,154 38		
		$3,814,874 38	
Balance applicable to dividends			$2,983,836 92
Dividends declared (6%)		$2,967,990 00	
Balance for the year			$15,846 92
Balance (profit and loss) last year			11,647,210 66
Items not included in above, as follows:			
East of Ashtabula harbor, improvement of to Dec. 31, 1891		$611,433 61	
Receipts from stocks sold, and other credit items			105,263 35
Interest and dividends on assets			455,623 13
Balance forward to next year			$11,612,510 45

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$50,000,000 00
Par value of shares	$100 00		
Number of shares issued	500,000		
Amount paid in on common		$49,466,500 00	
Amount paid in on guaranteed		533,500 00	
Amount paid in on shares not issued—None.			
Total amount paid in, as per books of the company			$50,000,000 00
Paid in per mile of road owned by company—864.87 miles			$57,812 16

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

After deducting $5,250,000 bonds in the sinking fund.

Date of issue.	Name and character.	Miles included in mortgage.	When due.	Amount outstanding.	Rate of interest and when payable.	Annual interest.
July 1, 1870	Lake Shore & Michigan Southern—consolidated first mortgage	864	July 1, 1900	$15,070,000	7% Reg'd Jan., Apr., July and Oct., coupon Jan. and July	$1,054,900
April 1, 1869	Lake Shore Railway—dividend bonds	258	April 1, 1899	1,355,000	7% April and October	94,850
Oct. 1, 1867	Cleveland, Painesville & Ashtabula—third mortgage	95	Oct. 1, 1892	569,000	7% April and October	39,830
April 1, 1868	Buffalo & Erie—mortgage	88	April 1, 1898	2,756,000	7% April and October	192,920
	Total amount outstanding of the first general mortgage of $25,000,000			$19,750,000		1,382,500
Dec. 1, 1873	Lake Shore & Mich. Southern—consolidated second general mortgage	864	Dec. 1, 1903	24,692,000	7% June and December	1,728,440
	Total funded debt—Lake Shore & Michigan Southern Railway Company proper			$44,442,000		$3,110,940

DEBT OF PROPRIETARY ROADS (OWNED WHOLLY BY LAKE SHORE & MICHIGAN SOUTHERN RAILWAY COMPANY).

Date of issue.	Name and character.	Miles included in mortgage	When due.	Amount outstanding.	Rate of interest and when payable.	Annual interest.
Aug. 1, 1876	Detroit, Monroe & Toledo—first mortgage principal and interest guaranteed by L. S. & M. S.	62	Aug. 1, 1906	$924,000	7% February and August	$64,680
Jan. 1, 1890	Kalamazoo & White Pigeon—first mortgage principal and interest guaranteed by L. S. & M. S.	37	Jan. 1, 1940	400,000	5% January and July	20,000
				$1,324,000		$84,680
	Total funded debt					$45,766,000

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$45,766,000 00
Total debt liabilities	$45,766,000 00
Amount of debt liabilities per mile of road (1,026.96 miles)	$44,564 54
Total amount of stock and debt	95,766,000 00
Stock and debt per mile of road { 864.87 miles, stock $57,812.16 / 1,026.96 miles, debt 44,564.54 }	102,376 70

GENERAL BALANCE SHEET.—Dr.

Construction account	$66,700,000 00	
Equipment account	17,300,000 00	
		$84,000,000 00
Other investments:		
Detroit, Monroe & Toledo R. R.	$1,381,600 00	
Kalamazoo & White Pigeon R. R.	610,000 00	
Northern Central Michigan R. R.	1,357,000 00	
Detroit & Chicago R. R.	942,850 04	
Jamestown & Franklin R. R.	2,218,568 81	
Stock and other companies	13,540,717 99	
		20,050,736 84
Cash items:		
Cash	$3,367,705 47	
Due from agents	1,165,641 76	
		4,533,347 23
Other assets:		
Materials and supplies		879,118 38
Debit balances from companies and individuals		276,605 63
Pacific Hotel Company, Chicago		270,840 67
General office property and other real estate		351,007 59
Total		$110,361,656 34

GENERAL BALANCE SHEET.—Cr.

Capital stock		$50,000,000 00
Funded debt		45,766,000 00
Unfunded debt:		
Dividends unpaid (paid February 1, 1892)	$1,758,002 50	
Vouchers and accounts (paid in January, 1892)	1,225,143 39	
		2,983,145 89
Profit and loss or income accounts		11,612,510 45
Total		$110,361,656 34

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$84,000,000 00
Average cost per mile of road (not included in sidings, 864.87 miles)	90,032 44
Proportion of cost for Michigan	21,047,902 49

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

None.

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Other sources.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches	$3,826,381 71	$1,121,475 86	$4,947,857 57	$513,458 97	$1,300,538 55		$6,761,855 09	$1,318,561 74		$7,089 84
Leased or proprietary roads:										
Detroit, Monroe & Toledo	143,813 30		143,813 30	12,200 60	10,835 08		166,848 98	146,276 50		2,675 62
Detroit & Chicago	15,452 89		15,452 89	1,262 43	1,289 76		18,005 08	16,764 53		266 35
Detroit, Hillsdale & S. W.	20,102 48		20,102 48	1,575 16	3,312 92		24,990 56	24,990 56		383 29
Ft. Wayne & Jackson	95,346 91		95,346 91	5,737 82	7,210 72		108,295 45	49,306 92		1,107 02
Northern Central Michigan	41,276 90		41,276 90	1,626 20	3,293 12		46,196 22	46,196 22		755 58
Kalamazoo & White Pigeon	43,266 03		43,266 03	3,028 49	5,397 49		51,692 01	51,692 01		1,413 52
Kalamazoo, Allegan & G. R.	59,748 32		59,748 32	4,182 19	7,453 67		71,384 18	71,384 18		1,221 92
Sturgis Goshen & St. Louis	9,644 58		9,644 58	1,298 18	1,700 76		12,643 52	3,724 78		353 06
Total passenger dep't earnings	$4.255,033 12	$1,121,475 86	$5,376,508 98	$544,370 04	$1,341,032 07		$7,261,911 09	$1,728,897 44	$1 56.65	$5,024 88

FREIGHT EARNINGS.

	Local traffic.	Through traffic.	Total traffic.	Other sources, Freight dep't.	Total.	Proportion for Michigan.	Per train mile.	Per mile of road.
Main line and branches			$12,866,069 54	$242,945 04	$13,109,014 58	$2,734,360 01		$13,651 52
Leased or proprietary roads:								
Detroit, Monroe & Toledo			423,591 86	14,356 24	437,948 10	368,934 85		7,022 90
Detroit & Chicago			20,842 98	26 74	20,869 72	19,335 18		308 72
Detroit, Hillsdale & South Western			16,819 20	30 60	16,849 80	16,849 80		258 43
Ft. Wayne & Jackson			110,255 69	1,261 24	111,516 93	51,206 75		1,139 91
Northern Central Michigan			43,055 84	3,288 03	46,343 87	46,343 87		758 00
Kalamazoo & White Pigeon			58,790 15	1,879 85	60,670 00	60,670 00		1,659 01
Kalamazoo, Allegan & Grand Rapids			81,186 40	1,135 15	82,321 55	82,321 55		1,409 13
Sturgis, Goshen & St. Louis			8,092 24	12 00	8,104 24	2,476 30		226 31
Total freight department earnings	$10,046,856 69	$3,581,847 21	$13,628,703 90	$264,934 89	$13,893,638 79	$3,382,498 31	$1 75.40	$9,613 71

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Total transportation earnings		$21,155,549 88
Transportation earnings per mile of road	$14,640 51	
Transportation earnings per train mile	1 68.5	
Miscellaneous receipts from operating account, other than for transportation:		
From rentals of tracks or terminals	$249,323 90	
From other sources	26,513 90	
		275,836 80

Distribution of miscellaneous earnings between main line and leased or proprietary roads:

Company.	Total miscellaneous.	Proportion for Michigan.
Detroit, Monroe & Toledo R. R. from F. & P. M. R. R. for use of tracks between Warner and Toledo; 70% Michigan	$16,436 69	$11,540 68

Total earnings from operation of road		$21,431,386 68
Total earnings per mile of road	$14,831 41	
Total earnings per train mile	1 70.7	
Income other than from earnings:		
Interest and dividends on assets		455,623 13
Total income from all sources		$21,887,009 81
Proportion of income for Michigan (based on mileage)		$5,122,936 43

NOTE.—This company claims that its income derived from the operation of its road within the State of Michigan is a less proportion of its gross income derived from the operation of its entire road than the miles of road operated in said state bear to the entire mileage operated by it, and less than the "proportion of earnings for Michigan" stated in this report. The following is a statement of the actual earnings in Michigan during the year 1891, upon the portion of its road in Michigan which was heretofore the roads of the Michigan Southern Railway Company and the Erie & Kalamazoo Railroad Company, being the main line from the line between the states of Ohio and Michigan to the line between the states of Michigan and Indiana, 115.95 miles; the Jackson branch, 41.98 miles; and the Monroe branch, 29.37 miles:

1st. On through traffic beginning and ending outside of Michigan carried over the main line in Michigan:	
Passenger earnings	$109,818 64
Freight earnings	27,144 00
2d. On traffic originating and ending in Michigan:	
Passenger earnings	137,935 44
Freight earnings	72,668 00
3d. On traffic originating in Michigan and ending in other states:	
Passenger earnings	53,539 42
Freight earnings	183,401 00
4th. On traffic originating in other states and ending in Michigan:	
Passenger earnings	49,907 10
Freight earnings	238,739 00
Total earnings in Michigan	$373,152 60

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,615,987 30
Renewals of rails	518,646 82
Renewals of ties	374,978 14
Repairs of bridges, including culverts and cattle guards	159,333 15
Repairs of fences, road crossings, and signs	183,960 62
Repairs of buildings	353,890 23
Total	$3,205,746 86

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$916,534 02
Repairs of passenger cars	344,238 84
Repairs of freight cars	1,420,176 36
Total	$2,681,349 22

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$1,020,786 69
Water supply	65,948 09
Oil and waste	85,983 31
Locomotive service	1,394,157 55
Passenger train service	264,619 29
Passenger train supplies	16,406 18
Mileage of passenger cars	30,159 25
Freight train service	678,622 39
Freight train supplies	22,479 14
Mileage of freight cars	528,848 37
Telegraph expenses (maintenance and operating)	321,052 82
Damage and loss of freight and baggage	74,258 08
Damages to property and cattle	24,392 40
Personal injuries	122,933 98
Agents and station service	2,525,711 39
Station supplies	60,461 80
Total	$7,236,821 18

GENERAL EXPENSES.

Salaries of the general officers of the company	$111,150 00
Salaries of clerks in general offices	310,228 54
Law expenses	53,873 65
Insurance	97,044 09
Stationery and printing	134,890 41
Outside agencies and advertising	235,947 83
Contingencies	52,544 41
Taxes	513,179 19
Total	$1,508,858 12

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	21.91	$3,205,746 86
Maintenance of motive power and cars	18.32	2,681,249 22
Conducting transportation	49.46	7,236,821 18
General expenses, including taxes	10.31	1,508,858 12
Total operating expenses and taxes	100.00	$14,632,675 38

Operating expenses and taxes per mile of road	$10,126 41
Operating expenses and taxes per train mile run, for trains earning revenue (12,556,797 miles)	1 16.5

EXPENSES IN MICHIGAN.

Main line and branches	$2,741,956 70	
Leased and proprietary roads:		
Detroit, Monroe & Toledo	350,343 71	
Detroit, Hillsdale & South Western	41,840 36	
Ft. Wayne & Jackson	76,390 39	
Northern Central Michigan	70,793 16	
Kalamazoo & White Pigeon	96,518 74	
Kalamazoo, Allegan & Grand Rapids	119,121 94	
Detroit & Chicago	42,236 66	
Sturgis, Goshen & St. Louis	6,201 08	
Total proportion of expenses for Michigan		$3,535,402 74
Percentage of expenses to earnings	68.27	
Net earnings per mile of road		4,704 99
Net earnings per train mile		54.2

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
In Michigan, from state line Ohio and Michigan to state line Indiana and Michigan	115.95
In New York from Buffalo to state line New York and Pennsylvania	69.50
In Pennsylvania from state line New York and Pa. to state line Pa. and Ohio	44.06
In Ohio from state line Pennsylvania and Ohio to state line Ohio and Michigan	195.01
In Indiana from state line Michigan and Indiana to state line Indiana and Illinois	101.95
In Illinois from state line Indiana and Illinois to Chicago	14.02
Total length completed	540.49
Length of double track—main line 285.21; branches 123.51	408.72
Length of third track on main line	7.71

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BRANCHES.

Sandusky, from Elyria Junction to Milbury Junction via Sandusky	72.95
Sandusky Pier, from Sandusky Junction to old depot at Sandusky	3.72
Air Line, from Air Line Junction to Elkhart	130.83
Jackson, from Lenawee Junction to Jackson	41.98
Monroe, from Lenawee Junction to Monroe	29.37
Ashtabula Harbor, from Ashtabula Harbor to crossing of main line	2.33
Ashtabula, from Ashtabula to Jamestown	35.98
Dunkirk, from Junction with D., A. V. & P. R. R. at Dunkirk	1.50
Detroit, from Air Line Junction to Detroit	62.36
Kalamazoo, from White Pigeon to Kalamazoo	36.57
Lansing, from Jonesville to North Lansing	61.14
Detroit & Chicago, from Detroit River Junction to Fayette	67.60
Sturgis, Goshen & St. Louis, from Goshen to Findley	35.81
Total length of branches owned by company	582.14
Total length of branches owned by company in Michigan	297.22
Total length of road belonging to this company	1,122.63
Total length of road belonging to this company in Michigan	413.17
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	97.05
Aggregate length of tracks in Michigan belonging to this company, computed as single track	510.22

Gauge of track 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:		Total miles.	In Michigan.
Kalamazoo, Allegan & Grand Rapids, from Kalamazoo to Grand Rapids		58.42	58.42
Detroit, Hillsdale & South Western, from Ypsilanti to Bankers		65.20	65.20
Fort Wayne & Jackson, from Fort Wayne to Jackson		97.88	44.54
Jamestown & Franklin, from Jamestown to Oil City		50.91	
Mahoning Coal Road, from Andover to Youngstown	38.91		
Mahoning Coal Road, from Doughton to state line O. and Pa.	6.05		
Mahoning Coal Road, from state line O. and Pa. to connect with N. Y., P. & O. at Sharon	1.95		
Mahoning Coal Road, from state line O. and Pa. to Stewart Mills	.31		
Mahoning Coal Road, from branch to No. 9 coal bank	2.85		
Mahoning Coal Road, from branch to Keel Ridge bank	.73	50.20	
Total		322.56	168.16
Total miles operated by the company		1,445.19	581.38

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	31	4,119
Stone bridges	2	120
Iron bridges	12	1,368.5
Wooden trestles	81	11,754
Total	126	17,361.5

Draw Bridges in Michigan.

How many on your line? Two.
Where located, when built, and length of draw span:
Grand Rapids, over Grand River, built 1879, length of draw 179 feet.
West Detroit, over Rouge River, built 1887, length of draw 160 feet.

Character of structure:
Grand River, Howe truss.
Rouge River, Pratt truss.

Material of which constructed:
Grand River, wood.
Rouge River, iron.

Height above water and depth of water under bridge:
Height above water, Grand River, 22 feet; depth of water 7 feet.
Height above water, Rouge River, 9 feet 6 inches; depth of water 16 feet.

How swung, by engine or hand power?
Hand.

Approaches straight or curved:
Grand River, straight.
Rouge River, curved.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

G. R. & I. at Grand Rapids, Plainwell, Kalamazoo, Sturgis (2).
C. & W. M. at Grandville, Grand Rapids.
C., J. & M. at Allegan, Homer, Hanover, Tecumseh.

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M. C. at Kalamazoo, Three Rivers, Eaton Rapids, Albion, Homer, Jackson (2), West Detroit, Detroit, Monroe.
C., K. & S. at Kalamazoo.
C. & G. T. at Schoolcraft and South Lansing.
L. T. R'y at Lansing.
T., A. A. & N. M. at Pittsfield Junction, Federman, Dundee.
Wabash at Raisin Center, Adrian, W. Detroit.
F. & P. M. at Carleton.

What railroads cross your road either over or under your grade in this State and where?
Under:
C., J. & M. R. R. at Hudson and Jerome.

At what crossings are interlocking and derailing switches in operation?
South Lansing, Union Switch & Signal Co., wheel machine.
Schoolcraft, Union Switch & Signal Co., Saxby & Farmer.
West Detroit, Union Switch & Signal Co., Saxby & Farmer.
Albion, Union Switch & Signal Co., Saxby & Farmer.
Woodmere, Union Switch & Signal Co., Saxby & Farmer.
Raisin Centre, Union Switch & Signal Co., Saxby & Farmer.
Adrian, Union Switch & Signal Co., Saxby & Farmer.
Jonesville, Union Switch & Signal Co., Saxby & Farmer.
Kalamazoo, Gravit Signal Co., wheel.

What pattern or patterns have you adopted?
Answered above.

Number of crossings of highways at grade in this State	874
Number of crossings of highways at grade in this State at which there are gates or flagmen	44
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad—over 7, under 4	11
Number of highway bridges 18 feet above track	7

Number of highway bridges less than 18 feet above track:
None.

Have safety guards been erected at overhead obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Wooden blocks.

Stations.

Number of stations on whole line	327
Same in Michigan	139

Employés.

Number persons regularly employed on all roads operated by company, including officials	13,993
Same in Michigan	2,061

Classify your employés as per following list:

	Number.
Baggagemen	133
Brakemen	704
Conductors	352
Engineers	696
Firemen	712
Laborers	1,735
Shopmen	1,240
Yardmen	1,262
Others	7,109

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	1,162.66

Number of miles required to complete fence both sides of your track, in Michigan:
None.

Road Bed and Track.

Number of track sections in Michigan	104
Average lengths of sections (miles)	5.6
Average number of men in each section gang	4
Number of new ties put in whole line during the year	776,043
Number of new ties put in track in Michigan	186,566
Average number of new ties per mile of road—entire line	537

New rails put in track:
Iron, none. Steel (tons, 24,133), miles 234.46

Bridges and Culverts (in Michigan).

Amount of trestle work replaced with earth during the year	None.
Timber culverts replaced during the year	27
With timber—number	27

New bridges built during the year (in Michigan):
None.

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ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	539	$2,356,800 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	21	93,000 00
Total	560	$2,449,800 00
Number of passenger cars—12 wheel, including official cars	27	
Number of passenger cars—8-wheel, including official cars	190	
Postal cars	25	
Number of express and baggage cars	81	589,694 64
Number of box freight cars	11,894	
Number of stock cars	1,414	
Number of platform cars	1,697	
Number of ore cars, 50; coal, 4,776	4,826	3,881,719 94
Number of conductors' way cars	280	108,533 60
Other cars as follows:		
Dumpers, 223; tool, 8; derrick, 12	243	83,959 25
Total	20,677	$7,063,707 43

Number of locomotives equipped with power brakes	547
Number of passenger train cars equipped with power brakes	323
Number of freight cars equipped with power brakes	1,008

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse and Steam Driver Brake.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Janney and Gould.

How are your passenger cars heated?
Martin, McElroy and Leland systems of steam heat; also Baker heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	4,635,756
Miles run by freight trains during the year	7,921,041
Total mileage of trains earning revenue	12,556,797

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate
Number of through passengers carried	95,806		
Number of local passengers carried	5,713,489		
Total number of passengers carried	5,809,295		
Total passenger mileage, or passengers carried one mile		246,944,673	
Average distance traveled by each passenger		42½	
Average amount received from each passenger			$0 93
Average rate of fare per mile for through passengers			02.168
Average rate of fare per mile for local passengers			02.180
Average rate of fare per mile for all passengers			02.177

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	1,587,292		
Number of tons of local freight carried	10,431,724		
Total tons of freight carried	12,019,016		
Total mileage of through freight		648,168,061	
Total mileage of local freight		1,520,564,170	
Total freight mileage, or tons carried one mile		2,168,727,231	
Average ton haul for through freight		408.3	
Average ton haul for local freight		145.8	
Average ton haul for all freight		180.4	
Average amount received for each ton haul			$1 13.4
Average rate per ton per mile, received for through freight			0.553
Average rate per ton per mile, received for local freight			0.661
Average rate per ton per mile, received for all freight			0.628

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Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	106,752
Flour	119,581
Provisions (beef, pork, lard, etc.)	12,284
Animals	25,101
Other agricultural products	63,760
Lumber and forest products	353,817
Coal	5,283
Plaster, lime and cement	27,344
Salt	19,197
Petroleum	4,637
Pig and bloom iron	6,646
Other iron and castings	36,977
Ores	1,619
Stone, brick and sand	58,159
Manufactures,—articles shipped from point of production	77,993
Merchandise and other articles not enumerated above	109,077
Total forwarded	1,028,227

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	1,101,546	9.17
Flour and other flour mill products	462,138	3.85
Provisions (beef, pork, lard, etc.)	285,432	2.37
Animals	511,519	4.26
Other agricultural products	338,328	2.81
Lumber and forest products	906,930	7.53
Coal	2,590,242	21.55
Plaster, lime and cement	175,300	1.46
Salt	78,391	0.65
Petroleum	412,269	3.43
Railroad iron, iron and steel rails	23,806	.20
Pig and bloom iron	181,094	1.50
Other iron and castings	616,005	5.12
Ores	1,277,053	10.63
Stone, brick and sand	936,796	7.79
Manufactures	404,796	3.37
Merchandise and other articles not enumerated above	1,720,267	14.32
Total tons carried	12,019,016	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co., Buffalo to Cleveland, pays 30 cents per 100 lbs. for through, and 15 cents per 100 lbs. for way freight.

United States Express Co, Buffalo to Chicago, pays from 20 to 85 cents per 100 lbs. on freight.

These companies do a general express business and deliver freight to us at our depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Number of miles wire owned by L. S. & M. S. R'y Co.	1,418	
Number of miles wire owned jointly by L. S. & M. S. R'y and W. U. Tel. Co.	1,610	
Number of miles wire owned jointly by L. S. & M. S. R'y and Postal Tel. Co.	36	
		3,064
Number of miles wire owned by W. U. Tel. Co.		9,834
Total miles wire on entire line		12,898

TRANSPORTATION COMPANIES.

Sleeping, Drawing-room, and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York city.

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REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

March 16, Tobias Shurtz, farmer, three miles east of Bronson. Highway crossing collision.
April 7, Willie Wyse, 19 years old, not employed, Pittsfield. Attempted to board moving train.
June 23, Joe. Rommel, farm laborer, near Sturgis. Walking on track struck by train.
August 2, Frank Manley, liveryman, Tecumseh. Drove into side of moving freight train.
August 19, Jos. Forbare, not employed, near Alexis. Deaf, walking on track, struck by train.
October 7, Chas. M. Wright, not company's employé, Wyandotte. Attempted to board moving train.
October 15, Ralph McDowell, farm laborer, Osseo. Jumped from moving freight train.
October 19, Jas. H. McMurray, not company's employé, Kalamazoo. Found dead on track; supposed struck by train.
December 31, Wm. Kearne, blacksmith, near Riga. Walking on track struck by engine.

INJURED.

January 3, Arthur F. Ritan, market gardener, Hudson. Feet caught in crossing; both feet off.
January 7, Wm. Wallace, occupation not known, W. Detroit. Lying on track, struck by engine; two fingers off.
January 23, Jas. A. Taylor, switchman, Jonesville. Coupling; two fingers off.
February 12, Wm. Aumend, brakeman, Lenawee Junction. Coupling; fingers broken.
March 3, W. A. Freed, brakeman, Bawbeese Lake. Coupling; wrist dislocated, one bone fractured.
May 1, Frank Kerkowski, occupation unknown, Detroit. Climbed on moving train; left arm off.
May 25, Mrs. Harriet Roberts, not employé, widow, Adrian. Walking on track struck by train; leg broken.
May 29, Frank Denman, brakeman, Hudson. Setting brake; wheel came off; arm broken.
June 1, Lon Rost, section foreman, near Hudson. Loading ties; finger broken.
June 3, Harvey Armes, boy, not employé, Monroe. Trespasser; jumped off moving train; leg off.
June 29, Jas. F. Thompson, brakeman, Ecorces. Car derailed; thrown off; wrist and ankle fractured.
July 13, Jas. Wilson, brakeman, Jonesville. Fell from hand car; back hurt.
August 17, Fred Bay, employé car department, Adrian. Fire extinguisher exploded; left leg broken.
October 20, J. A. Bryning, yard brakeman, Detroit. Foot slipped through car step; left foot off.
October 24, Chas. J. Murray, brakeman, Mosherville. Attempted to step on brake beam; three toes off.
November 11, John Haler, bridge laborer, Burr Oak. Hand caught in pulley; two fingers off.
November 15, Jacob Dominick, 11 years old, not employé, Detroit. Climbed on moving car; fell and arm off.
November 20, Frederick Hoag, laborer, not company employé, Hillsdale. Unloading lumber; foot caught between draw bars; crushed.
December 3, Thos. Phinney, brakeman, Litchfield. Poling cars; thumb fractured.
December 17, Jno. A. Marshall, brakeman, Three Rivers. Struck support bridge telltales; one rib broken.
December 28, Watson Irwin, fireman, Jonesville. Fell from engine tank; leg broken.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers	Employés.	Others.	Passengers	Employés.	Others.
Collisions					3	
Coupling cars						
Derailments						
Falling from trains						
Frogs						
Getting on and off trains			3		1	1
Highway crossings			1			1
Miscellaneous			1		10	1
Overhead obstructions						
Trespassers on trains						2
Trespassers on tracks			4			2
Total			9		14	7

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	9
Number of persons injured during the year	21
Number of casualties purely accidental	4
Number resulting from lack of caution, carelessness, or misconduct	26
Trespassers and tramps killed or injured	12

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen		8	8
Brakemen			
Conductors			
Engineers			
Firemen		1	1
Laborers		2	2
Shopman			
Yardmen		1	1
Not classified above		2	2
Total		14	14

STATE OF OHIO, }
COUNTY OF CUYAHOGA. } ss.

John Newell, president, and Cyrus P. Leland, auditor, of the Lake Shore & Michigan Southern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.] JOHN NEWELL,
CYRUS P. LELAND.

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.] L. ROOD LOOMIS, *Notary Public.*

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ANNUAL REPORT

OF THE

DETROIT & CHICAGO RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.
Secretary and Treasurer, CYRUS P. LELAND, Cleveland, Ohio.

DIRECTORS.

JOHN NEWELL, Cleveland, Ohio.
C. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
ASHLEY POND, Detroit, Mich.
CHAS. F. COX, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CYRUS P. LELAND, Cleveland, Ohio.
D. W. PARDEE, New York, N. Y.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 19, 1888.

Number of stockholders at date of last election	11
Number of stockholders in Michigan at same date	1
Amount of full paid stock held in Michigan at same date	$1,000 00

Date of annual meeting of stockholders—Second Wednesday in November.
Fiscal year of company ends, December 31.
General offices of the company are located at Cleveland, Ohio.

REMARKS.

Entire capital stock owned by the Lake Shore & Michigan Southern Railway Company.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	10,000		
Amount paid in on common		$1,000,000 00	
Total amount paid in, as per books of the company			$1,000,000 00
Paid in per mile of road owned by company (miles, 67.6)			$14,792 90

ANALYSIS OF DEBT ACCOUNTS.

No debt accounts.

Total amount of stock	$1,000,000 00
Stock per mile of road	14,792 90

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COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by old Company.

Total expended for construction	$5,178,557 58
Average cost per mile of road (not included in sidings, 67.6 miles)	76,576 29
Proportion of cost of construction for Michigan	4,818,712 07

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
1874.

MAIN LINE.

	Miles.
Length completed in Michigan	62.94
Length completed in Ohio	4.66
Total length completed	67.60
Total length of road belonging to this company	67.60
Total length of road belonging to this company in Michigan	62.94
Aggregate length of sidings, spurs and other tracks not above enumerated	4.32
Same in Michigan	4.00
Aggregate length of tracks belonging to this company, computed as single track	71.92
Same in Michigan	66.94

Gauge of track, 4 feet 8½ inches.

STATE OF OHIO, }
COUNTY OF CUYAHOGA, } ss.

John Newell, president, and Cyrus P. Leland, secretary, of the Detroit & Chicago Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D., 1891, to the best of their knowledge and belief.

Signed,
JOHN NEWELL, *President.*
[L. S. OF R. R.] CYRUS P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, A. D., 1892.

[L. S.] L. ROOD LOOMIS,
Notary Public.

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ANNUAL REPORT

OF THE

DETROIT, HILLSDALE & SOUTHWESTERN RAILROAD CO.

For the year ending December 31, 1891.

[Filed August 31, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ELIJAH SMITH, Boston, Mass.
Vice President, JAMES P. COOK, Salem, Mass.
Secretary and Treasurer, PROSPER W. SMITH, Boston, Mass.

DIRECTORS.

ELIJAH SMITH, Boston, Mass.
CALEB W. LORING, Boston, Mass.
EDWARD L. GIDDINGS, Boston, Mass.
PROSPER W. SMITH, Boston, Mass.
CHARLES E. GUILD, Boston, Mass.
JAMES W. POTTER, Boston, Mass.
JAMES P. COOK, Salem, Mass.
M. V. B. EDGERLY, Springfield, Mass.
GEORGE B. WARREN, Troy, N. Y.
Terms expire January 12, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 30, 1875.	
Number of stockholders at date of last election	340
Number of stockholders in Michigan at same date	2
Amount of full paid stock held in Michigan at same date	$1,700 00
Date of annual meeting of stockholders—Second Tuesday in January.	
Fiscal year of company ends January 1.	
General offices of the company are located at Ypsilanti, Mich.	

REMARKS.

The property of the Detroit, Hillsdale & Southwestern Railroad Company is leased in perpetuity to the Lake Shore & Michigan Southern Railway Company; lease dated Sept. 5, 1881. The terms are three per cent per annum until July 1, 1883, and four per cent per annum on capital stock thereafter.

The mortgage of the Detroit, Hillsdale & Indiana Railroad Company was foreclosed and the property purchased for the bondholders, who organized the Detroit, Hillsdale & Southwestern Railroad Company, and issued $1,350,000 of stock for the property.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,350,000 00
Par value of shares		$100 00	
Average price received per share		100 00	
Number of shares issued	13,500		
Amount paid in on common			$1,350,000 00
Total amount paid in, as per books of the company			$1,350,000 00

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ANALYSIS OF DEBT ACCOUNTS.

No debt account.

Total amount of stock	$1,850,000 00
Stock per mile of road, (65.20 miles)	20,705 52

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$1,288,648 59
Average cost per mile of road (not included in sidings, 65.20 miles)	19,764 55
Proportion of cost of construction for Michigan	1,288,648 59
Total expended for equipment	53,511 74
Average cost per mile of road	820 73

All in Michigan.

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
November, 1872.

MAIN LINE.

	Miles.
Length completed in Michigan	65.20
Total length completed	65.20
Total length of road belonging to this company	65.20
Total length of road belonging to this company in Michigan	65.20
Aggregate length of sidings, spurs, and other tracks not above enumerated	4.29
Same in Michigan	4.29
Aggregate length of tracks belonging to this company, computed as single track	69.49

Gauge of track 4 feet 8½ inches.

STATE OF MASSACHUSETTS, } ss.
COUNTY OF SUFFOLK, }

Prosper W. Smith, secretary, of the Detroit, Hillsdale & Southwestern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] PROSPER W. SMITH, *Secretary.*

Subscribed and sworn to before me this 29th day of August, A. D. 1892.

[L. S.] HENRY M. SPELLMAN,
Notary Public.

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ANNUAL REPORT

OF THE

DETROIT, MONROE & TOLEDO RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, O.
Secretary and Treasurer, C. P. LELAND, Cleveland, O.

DIRECTORS.

C. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
JNO. NEWELL, Cleveland, O.
E. D. WORCESTER, New York, N. Y.
G. H. WORCESTER, New York, N. Y.
ASHLEY POND, Detroit, Mich.
GEO. C. GREENE, Cleveland, O.
P. P. WRIGHT, Cleveland, O.
ADDISON HILLS, Cleveland, O.
C. P. LELAND, Cleveland, O.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election	2
Number of stockholders in Michigan at same date	1
Amount of full paid stock held in Michigan at same date	$100 00

Date of annual meeting of stockholders—Fourth Tuesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

REMARKS.

Entire capital stock except one share owned by L. S. & M. S. R'y Co.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$414,100 00
Par value of shares	$100 00	
Number of shares issued	4,141	
Total amount paid in, as per books of the company		$414,100 00
Paid in per mile of road owned by company		$6,640 47

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	7%	1906		$924,000 00
Total funded debt				$924,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$924,000 00
Total debt liabilities	$924,000 00
Amount of debt liabilities per mile of road (62.86 miles)	$14,832 22
Total amount of stock and debt	1,338,100 00
Stock and debt per mile of road	21,472 69

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$64,680 00

Was it paid for the last year?
Yes.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$1,881,600 00
Average cost per mile of road (not included in sidings, 62.86 miles)	22,155 22
Proportion of cost of construction for Michigan	1,196,381 88

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
Length completed in Michigan	54.67
Length completed in Ohio	7.69
Total length completed	62.86
Length of double track on main line in Ohio	2.45
Total length of road belonging to this company	62.86
Total length of road belonging to this company in Michigan	54.67
Aggregate length of sidings, spurs, and other tracks not above enumerated	22.03
Same in Michigan	18.26
Aggregate length of tracks belonging to this company computed as single track	86.84
Same in Michigan	72.93

Gauge of track 4 feet 8½ inches.

STATE OF OHIO, } ss.
COUNTY OF CUYAHOGA. }

John Newell, president, and C. P. Leland, secretary, of the Detroit, Monroe & Toledo Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed.

[L. S. OF R. R.]

JOHN NEWELL, *President.*
C. P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.]

L. ROOD LOOMIS, *Notary Public.*

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ANNUAL REPORT

OF THE

FORT WAYNE & JACKSON RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed June 9, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SAMUEL SLOAN, New York, N. Y.
Secretary and Treasurer, ROSWELL G. ROLSTON, Babylon, L. I.

DIRECTORS.

SAMUEL SLOAN, New York, N. Y.
R. G. ROLSTON, Babylon, L. I.
LAWRENCE TURNURE, New York, N. Y.
W. D. SEARLS, New York, N. Y.
AMOS ROOT, Jackson, Mich.
PERRY R. PAYNE, New York, N. Y.
STEPHEN S. PALMER, New York, N. Y.
HENRY BESTE, New York, N. Y.
WM. S. SLOAN, New York, N. Y.
DWIGHT MERRIMAN, Jackson, Mich.
JAMES F. JOY, Detroit, Mich.
Terms expire February 5, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 28, 1880.
Number of stockholders at date of last election 358
Number of stockholders in Michigan at same date 11
Amount of full paid stock held in Michigan at same date—About 1,090 shares.
Date of annual meeting of stockholders—January of each year.
Fiscal year of company ends December 31.
General offices of the company are located at 26 Exchange Place, New York.

REMARKS.

Leased to Lake Shore & Michigan Southern R'y Co., dated August 24, 1882, in perpetuity; rental $126,027.88 per annum.

ANALYSIS OF CAPITAL STOCK.

Par value of shares	$100 00		
Amount paid in on common		$436,132 00	
Amount paid in on preferred		2,291,416 00	
Total amount paid in as per books of the company			$2,727,548 00
Paid in per mile of road owned by company—miles 97.83			$27,880 48

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ANALYSIS OF DEBT ACCOUNTS.

No debt accounts.

Total amount of stock	$2,727,548 00
Stock per mile of road	27,880 48

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
Length completed in Michigan	44.54
Length completed in Indiana	53.29
Total length completed	97.83
Total length of road belonging to this company	97.83
Total length of road belonging to this company in Michigan	44.54
Aggregate length of sidings, spurs and other tracks not above enumerated	19.28
Same in Michigan	5.29
Aggregate length of tracks belonging to this company computed as single track	117.11
Same in Michigan	49.83

Gauge of track 4 feet 8½ inches.

STATE OF NEW YORK, } ss.
COUNTY OF NEW YORK. }

Samuel Sloan, president, and R. G. Rolston, secretary of the Fort Wayne & Jackson Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

SAM SLOAN, *President*,
R. G. ROLSTON, *Secretary*.

Subscribed and sworn to before me this 23d day of May, A. D. 1892.

[L. S.]

W. B. CARDOZO,
Notary Public, New York Co.

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ANNUAL REPORT

OF THE

KALAMAZOO, ALLEGAN & GRAND RAPIDS RAILROAD CO.,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE, JR., Cleveland, Ohio.
Secretary, C. P. LELAND, Cleveland, Ohio.
Treasurer, W. S. JONES, Cleveland, Ohio.

DIRECTORS.

O. M. BARNES, Lansing, Mich.
H. B. PAYNE, Cleveland, Ohio.
C. P. LELAND, Cleveland, Ohio.
JOHN NEWELL, Cleveland, Ohio.
GEO. F. ELY, Cleveland, Ohio.
J. M. JONES, Cleveland, Ohio.
J. H. WADE, JR., Cleveland, Ohio.
W. S. JONES, Cleveland, Ohio.

Terms expire first Wednesday in May.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election	92
Number of stockholders in Michigan at same date	14
Amount of full paid stock held in Michigan at same date	$206,600 00

Date of annual meeting of stockholders, first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$610,000 00
Par value of shares	$100 00	
Number of shares issued	6,100	
Amount paid in on common	$610,000 00	
Total amount paid in, as per books of the company		$610,000 00
Paid in per mile of road owned by company		$10,441 63

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	July 1, 1938		$840,000 00
Total funded debt				$840,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$840,000 00
Total debt liabilities	840,000 00
Amount of debt liabilities per mile of road [58.42 miles]	14,378 64
Total amount of stock and debt	1,450,000 00
Stock and debt per mile of road	24,820 27

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$42,000 00

Was it paid for the last year?
Yes.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction	$1,450,000 00
Average cost per mile of road (not included in sidings) [58.42 miles]	24,820 00
Proportion of cost of construction for Michigan	1,450,000 00

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
Length completed in Michigan	58.42
Total length completed	58.42
Total length of road belonging to this company	58.42
Total length of road belonging to this company in Michigan	58.42
Aggregate length of sidings, spurs and other tracks not above enumerated	10.36
Same in Michigan	10.36
Aggregate length of tracks belonging to this company computed as single track	68.78
Same in Michigan	68.78

Gauge of track 4 feet 8½ inches.

STATE OF OHIO, }
COUNTY OF CUYAHOGA. } ss.

C. P. Leland, secretary, of the Kalamazoo, Allegan & Grand Rapids Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1892, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] CYRUS P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.] L. ROOD LOOMIS,
Notary Public.

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ANNUAL REPORT

OF THE

KALAMAZOO & WHITE PIGEON RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, O.
Secretary and Treasurer, C. P. LELAND, Cleveland, O.

DIRECTORS.

JOHN NEWELL, Cleveland, O.
J. H. WADE, Cleveland, O.
C. P. LELAND, Cleveland, O.
D. P. CLAY, Grand Rapids, Mich.
D. B. MERRILL, Kalamazoo, Mich.
J. W. OSBORN, Kalamazoo, Mich.
M. E. WATTLES, Kalamazoo, Mich.
Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders in Michigan—One. (L. S. & M. S. R'y Co.)
Fiscal year of company ends, December 31.
General offices of the company are located at Cleveland, Ohio.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$230,900 00
Par value of shares	$100 00		
Number of shares issued	2,309		
Amount paid in on common		$230,900 00	
Total amount paid in, as per books of the company			$230,900 00
Paid in per mile of road owned by company			$6,313 64

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	January 1, 1940		$400,000 00
Total funded debt				$400,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$400,000 00
Total debt liabilities	$400,000 00
Amount of debt liabilities per mile of road (36 57 miles)	10,937 92
Total amount of stock and debt	$630,900 00
Stock and debt per mile of road	17,251 56

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$20,000 00
Was it paid for the last year? Yes,	

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction	$610,000 00
Average cost per mile of road (not included in sidings, (36.57 miles)	16,680 00
Proportion of cost of construction for Michigan	610,000 00

DE CRIPTION OF ROAD.

MAIN LINE.

	Miles.
Length completed in Michigan	36.57
Total length completed	36.57
Total length of road belonging to this company	36.57
Total length of road belonging to this company in Michigan	36.57
Aggregate length of sidings, spurs, and other tracks not above enumerated	5.84
Same in Michigan	5.84
Aggregate length of tracks belonging to this company, computed as single track	42.41
Same in Michigan	42.41

Gauge of track, 4 feet 8½ inches.

STATE OF OHIO, }
COUNTY OF CUYAHOGA. } ss.

John Newell, president, and C. P. Leland, secretary, of the Kalamazoo & White Pigeon Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JOHN NEWELL, *President.*
CYRUS P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, 1892,

[L. S.]

L. ROOD LOOMIS, *Notary Public.*

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ANNUAL REPORT

OF THE

NORTHERN CENTRAL MICHIGAN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.
Secretary and Treasurer, CYRUS P. LELAND, Cleveland, Ohio.

DIRECTORS.

W. K. VANDERBILT, New York, N. Y.
W. H. BROCKWAY, Albion, Mich.
JOHN NEWELL, Cleveland, Ohio.
C. T. MITCHELL, Hillsdale, Mich.
S. V. IRWIN, Lansing, Mich.
W. H. CANNIFF, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
A. E. BILLINGS, Toledo, Ohio.
R. A. MONTGOMERY, Lansing, Mich.

Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election. One (L. S. & M. S. Ry. Co.).
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	$610,000 00
Number of shares issued, 6,100, all owned by L. S. & M. S. Ry. Co. Total amount paid in, as per books of the company	$610,000 00
Paid in per mile of road owned by company—61.44 miles	$9,977 12

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds (all owned by L. S. & M. S. Ry. Co.)	8%	1903		$1,525,000 00
Total funded debt				$1,525,000 00

UNFUNDED DEBT.

None.

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RECAPITULATION.

Total funded debt	$1,525,000 00
Total debt liabilities	$1,525,000 00
Amount of debt liabilities per mile of road (61.14 miles)	24,942 75
Total amount of stock and debt	2,135,000 00

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$122,000 00

Was it paid for the last year?
Yes.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$1,357,000 00
Average cost per mile of road (not included in siding) [61.14 miles]	22,195 00
Proportion of cost of construction for Michigan	1,357,000 00

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
Length completed in Michigan	61.14
Total length completed	61.14
Total length of road belonging to this company	61.14
Total length of road belonging to this company in Michigan	61.14
Aggregate length of sidings, spurs, and other tracks not above enumerated	8.00
Same in Michigan	8.00
Aggregate length of tracks belonging to this company, computed as single track	69.14
Same in Michigan	69.14

Gauge of track 4 feet 8½ inches.

STATE OF OHIO, }
COUNTY OF CUYAHOGA. } ss.

John Newell, president, Cyrus P. Leland, secretary, of the Northern Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JOHN NEWELL, *President.*
CYRUS P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.]

L. ROOD LOOMIS,
Notary Public.

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ANNUAL REPORT

OF THE

STURGIS, GOSHEN & ST. LOUIS RAILROAD COMPANY,

For year the ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, O.
Secretary and Treasurer, CYRUS P. LELAND, Cleveland, O.

DIRECTORS.

W. K. VANDERBILT, New York, N. Y.
CORNELIUS VANDERBILT, New York, N. Y.
JOHN NEWELL, Cleveland, O.
E. D. WORCESTER, New York, N. Y.
P. P. WRIGHT, Cleveland, O.
T. J. CHARLESWORTH, Toledo, O.
JOHN H. BAKER, Goshen, Ind.
Terms expire when their successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election—One (L. S. & M. S. R'y Co).
Number of stockholders in Michigan at same date ..... None.
Amount of full paid stock held in Michigan at same date ..... None.
Date of annual meeting of stockholders—First Wednesday in June.
Fiscal year of company ends, December 31.
General offices of the company are located at Cleveland, Ohio.

REMARKS.

The Sturgis, Goshen & St. Louis R. R. was acquired by the Lake Shore & Michigan Southern Railway Co. as of Dec. 1, 1889. The entire capital stock, $1,000,000, was turned over to the L. S. & M. S. R'y Co., for which that company assumed the bonded debt of $401,000—100 year 3 per cent bonds, $12,030 per annum. This was on the road Sturgis to Goshen.

Then the Michigan Central released to the L. S. & M. S. that portion of the Battle Creek & Sturgis R. R. from Sturgis to Findley, upon the L. S. & M. S. assuming its proportion of the bonded debt upon that road ($79,000 assumed by L. S. & M. S). Michigan Central also turned over to L. S. & M. S. $32,500 capital stock of Battle Creek & Sturgis R. R. to give L. S. & M. S. ownership of the road between Findley and Sturgis.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association $2,000,000 00
Par value of shares $100 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
First mortgage	3%	1989	New York city.	$401,000 00
Total funded debt				$401,000 00

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UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$401,000 00
Total debt liabilities	$401,000 00
Amount of debt liabilities per mile of road (28 miles)	14,321 43

INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	$12,030 00

COST OF ROAD AND EQUIPMENT.

We have no books or data to enable us to answer this.

DESCRIPTION OF ROAD..

Date when the road was opened for use between its present termini:
Do not know; think in 1888.

MAIN LINE.

	Miles.
Length completed in Michigan	10.55
Length completed in Indiana	25.26
Total length completed	35.81
Total length of road belonging to this company	35.81
Total length of road belonging to this company in Michigan	10.55
Aggregate length of sidings, spurs and other tracks not above enumerated	2.55
Same in Michigan	.81
Aggregate length of tracks belonging to this company, computed as single track	38.36
Same in Michigan	11.36

Gauge of track, 4 feet 8½ inches.

STATE OF OHIO, } ss.
COUNTY OF CUYAHOGA. }

John Newell, president, and Cyrus P. Leland, secretary, of the Sturgis, Goshen & St. Louis Railroad Company, being duly sworn, depose and that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JOHN NEWELL, *President.*
CYRUS P. LELAND, *Secretary.*

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.]

L. ROOD LOOMIS, *Notary Public.*

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ANNUAL REPORT

OF THE

MASON & OCEANA RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 2, 1892.]

OFFICERS OF THE COMPANY. WITH LOCATION OF OFFICES.

President, M. F. BUTTERS, Ludington, Mich.
Vice President, G. N. STRAY, Ludington, Mich.
Secretary and Treasurer, J. H. LYONS, Ludington, Mich.
General Superintendent, M. McDermott, Buttersville, Mich.
Chief Engineer, Otto Wrege.

DIRECTORS.

M. F. BUTTERS, Ludington, Mich.
G. N. STRAY, Ludington, Mich.
J. H. LYONS, Ludington, Mich.
HORACE BUTTERS, Ludington, Mich.
M. McDERMOTT, Buttersville, Mich.
Terms expire January 9, 1893.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—August 9, 1886.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	5
Amount of full paid stock held in Michigan at same date	$150,000 00

Date of annual meeting of stockholders,—Second Monday in January.
Fiscal year of company ends December 31.
General offices of the company are located at Ludington, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$43,295 61
Total expenses, including taxes	$41,574 11	
Net income		$1,721 50
Interest on unfunded debt	$1,721 50	
Balance forward to next year	$1,721 50	$1,721 50

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$150,000 00
Par value of shares	$100 00	
Number of shares issued	1,500	
Amount paid in on common	$150,000 00	
Total amount paid in, as per books of the company		$150,000 00
Paid in per mile of road owned by company		$5,555 55

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For construction, For equipment, For real estate, For renewals, For miscellaneous, For current balances	$97,393 07
Total unfunded debt	$97,393 07

RECAPITULATION.

Total debt liabilities	$97,393 07
Amount of debt liabilities per mile of road (27 miles)	3,607 15
Total amount of stock and debt	247,393 07
Stock and debt per mile of road (27 miles)	9,162 70

GENERAL BALANCE SHEET.—Dr.

Construction account	$175,129 80	
Equipment account	68,220 51	
		$243,349 81
Other assets:		
Materials and supplies	$3,700 00	
Debit balances from companies and individuals	343 26	
		4,043 26
Total		$247,393 07

GENERAL BALANCE SHEET.—Cr.

Capital stock	$150,000 00
Unfunded debt:	
Due B. & P. S. & L. Co.	97,393 07
Total	$247,393 07

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$243,349 81
Average cost per mile of road, not including sidings (27 miles)	9,112 95
Proportion of cost for Michigan	9,112 95

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$5,388 10
Right of way	140 88
New buildings	1,318 97
New fences	880 37
New locomotives	8,000 00
New cars	9,964 17
Total	$25,687 47

Total charges to property account as above	$25,687 47
Net addition to property account	25,687 47

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$4,400 68	
Total passenger fares	$4,400 68	
Mails	1,246 16	
Total passenger department earnings		$5,646 84

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Proportion for Michigan	$5,646 84	
Per train mile	31	
Per mile of road	209 18	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$37,648 77	
Total traffic	$37,648 77	
Total freight department earnings		$37,648 77
Proportion for Michigan	$37,648 77	
Per train mile	94	
Per mile of road	1,394 39	
Total transportation earnings		$43,295 61

Transportation earnings per mile of road	$1,603 54
Transportation earnings per train mile	74
Total earnings from operation of road	43,295 61
Total earnings per mile of road	1,603 54
Total earnings per train mile	74
Proportion of taxable earnings for Michigan	43,295 61
Total taxable earnings per mile of road in Michigan	1,603 54
Income other than from earnings	None.
Total income from all sources	43,295 61
Proportion of income for Michigan	43,295 61

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$7,962 20
Renewals of rails	500 00
Renewals of ties	1,000 00
Repairs of bridges, including culverts and cattle guards	600 00
Repairs of fences, road crossings and signs	300 00
Repairs of buildings	500 00
Total	$10,862 20

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$6,000 00
Repairs of passenger cars	300 00
Repairs of freight cars	4,000 00
Total	$10,300 00

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$6,000 00
Water supply	300 00
Oil and waste	600 00
Locomotive service	6,500 00
Passenger train service	1,300 00
Passenger train supplies	100 00
Freight train service	3,673 50
Freight train supplies	100 00
Telegraph expenses (maintenance and operating)	100 00
Damages to property and cattle	372 50
Agents and station service	500 00
Total	$19,546 00

GENERAL EXPENSES.

Taxes	$865 91
Total	$865 91

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	26.13	$10,862 20
Maintenance of motive power and cars	24.78	10,300 00
Conducting transportation	47.01	19,546 00
General expenses, including taxes	2.08	865 91
Total operating expenses and taxes	100.00	$41,574 11

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Operating expenses and taxes per mile of road	$1,539 77
Operating expenses and taxes per train mile run, for trains earning revenue, 58,000 miles	71
Proportion of operating expenses and taxes for Michigan	41,574 11
Net earnings per mile of road	63 76
Net earnings per train mile	03

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
January 20, 1888.

MAIN LINE.

	Miles.
In Michigan, from Buttersville to Stetson	27
Total length completed	27
Total length of branches owned by company	9
Total length of branches owned by company in Michigan	9
Total length of road belonging to this company	36
Total length of road belonging to this company in Michigan	36
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	9
Aggregate length of tracks in Michigan belonging to this company computed as single track	36

Gauge of track 8 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	3	450
Total	3	450

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and in what locality?
None.

Number of crossings of highways at grade in this State	11

Stations.

Number of stations on whole line	6
Same in Michigan	6

Employés.

Number persons regularly employed on all roads operated by company, including officials	50
Same in Michigan	50

Classify your employés as per following list:

	Number.
Brakemen	12
Conductors	1
Engineers	7
Firemen	7
Laborers	17
Shopmen	4
Yardmen	2

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	20
Give the number of miles required to complete fence both sides of your track in Michigan	7

Road Bed and Track.

Number of track sections in Michigan	4
Average length of sections (miles)	7
Average number of men in each section gang	4
Number of new ties put in whole line during the year	3,000
Number of new ties put in track in Michigan	3,000
Average number of new ties per mile of road	111

New rails put in track:
Steel (tons, 96), miles, 2.

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ROLLING STOCK.

	Number.	Present estimated value
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$8,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3	14,000 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	2	4,000 00
Total	7	$26,000 00
Number of passenger cars—8 wheel, including official cars	1	$700 00
Number of express and baggage cars	1	500 00
Number of box freight cars	2	400 00
Number of platform cars	60	10,500 00
Number of ore cars	175	29,370 00
Other cars as follows	5	750 51
Total	251	$68,220 51

Number of locomotives equipped with power brakes 2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Rachet hand chain and wheel.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

What pattern or patterns have you adopted for use?
Link and pin.

How are your passenger cars heated?
Coal heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	180,000
Miles run by freight trains during the year	400,000
Total mileage of trains earning revenue	580,000

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Total number of passengers carried	10,000		
Total passenger mileage, or passengers carried one mile	160,000		
Average distance traveled by each passenger		16	
Average amount received from each passenger			$0 44
Average rate of fare per mile for all passengers			03

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Total tons of freight carried	80,000		
Total freight mileage, or tons carried one mile	1,600,000		
Average ton haul for all freight		20	
Average amount received for each ton haul			$0 47
Average rate per ton per mile received for all freight			2.35

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	600
Flour	60
Provisions (beef, pork, lard, etc.)	100
Animals	10
Other agricultural products	5
Lumber and forest products	78,475
Coal	5
Plaster, lime and cement	20
Salt	60
Petroleum	80
Railroad iron, iron and steel rails	20
Other iron and castings	5
Stone, brick and sand	10
Merchandise and other articles not enumerated above	600
Total forwarded	80,000

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	600	
Flour	60	
Provisions (beef, pork, lard, etc.)	100	
Animals	10	
Other agricultural products	5	
Lumber and forest products	78,475	
Coal	5	
Plaster, lime and cement	20	
Salt	60	
Petroleum	30	
Railroad iron, iron and steel rails	20	
Other iron and castings	5	
Stone, brick and sand	10	
Merchandise and other articles not enumerated above	600	
Total tons carried	80,000	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

None.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

27 miles of telephone line owned by road.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

None.

INJURED.

None.

STATE OF MICHIGAN, } ss.
COUNTY OF MASON. }

M. F. Butters, president, of the Mason & Oceana Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D., 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.]

M. F. BUTTERS,
President M. & O. R. R.

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.]

GEO. M. FREEMAN,
Justice of the Peace.

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ANNUAL REPORT

OF THE

HANCOCK & CALUMET RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CHARLES BARD, New York, N. Y.
Secretary and Treasurer, JOHN TULLY, New York, N. Y.
Auditor and Cashier, C. M. HOAR, Hancock, Mich.
General Manager, C. A. WRIGHT, Hancock, Mich.
Chief Engineer, W. J. WREN, Hancock, Mich.
General Passenger and Freight Agent. R. H. BRELSFORD, Hancock, Mich.
Attorneys, HUBBELL & GRAY, Houghton, Mich.

DIRECTORS.

CHARLES BARD, Norwich, Conn.
WILLIS A. BRISCOE, Norwich, Conn.
JOHN TULLY, New York, N. Y.
A. S. BIGELOW, Boston, Mass.
JOHN DANIELL, Opechee, Mich.
C. A. WRIGHT, Hancock, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 14, 1885.
Number of stockholders at date of last election 11
Date of annual meeting of stockholders—Second Tuesday in July.
Fiscal year of company ends December 31.
General offices of the company are located at Hancock, Mich.

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$175,925 88
Total expenses, including taxes		$107,562 49	
Net income			$68,363 39
Interest on funded debt		$15,975 00	
Interest on unfunded debt		18,021 74	
Balance for the year			$34,366 65
Balance (profit and loss) last year			134,786 03
Items not included in above, as follows:			
Insolvent debtors charged off	$714 56		
Expense account substitution of 5% bonds for 6% bonds	19,420 75		
Contingent account	25,000 00		
		$45,135 31	
Balance forward to next year		124,017 37	
		$169,152 68	$169,152 68

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$350,000 00
Par value of shares		$100 00	
Number of shares issued	3,500		
Amount paid in on common		$350,000 00	
Total amount paid in as per books of the company			$350,000 00
Paid in per mile of road owned by company (miles 21.61)			$16,196 20

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Consolidated mortgage, 1891	5%	1931	New York, N. Y.	$400,000 00
Total funded debt				$400,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction and equipment		$28,550 00
For current balances		37,248 47
Total unfunded debt		$65,798 47

RECAPITULATION.

Total funded debt		$400,000 00
Total unfunded debt		65,798 47
Total debt liabilities		$465,798 47
Amount of debt liabilities per mile of road (21.61 miles)		$21,554 76
Total amount of stock and debt		815,798 47
Stock and debt per mile of road (21.61 miles)		37,750 97

GENERAL BALANCE SHEET.—Dr.

Construction account		$836,809 88
Cash items:		
Cash	$6,299 03	
Due from agents	704 55	
		7,003 58
Other assets:		
Materials and supplies	$10,531 87	
Debit balances from companies and individuals	15,470 51	
Bonds owned	70,000 00	
		96,002 38
Total		$939,815 84

GENERAL BALANCE SHEET.—Cr.

Capital stock	$350,000 00	
Funded debt	400,000 00	
		$750,000 00
Unfunded debt:		
Notes payable	$28,550 00	
Vouchers and accounts	37,248 47	
		65,798 47
Profit and loss or income accounts		124,017 37
Total		$939,815 84

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COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$836,809 88
Average cost per mile of road (not included in sidings, 21.61 miles)	38,723 27
Proportion of cost for Michigan	836,809 85

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line:	
Extensions and new sidings	$18,877 82
New buildings	1,676 81
New fences	669 14
New locomotives	24,329 53
New cars	26,991 52
Total	$72,544 82
Total charges to property account as above	$72,544 82
Property sold and credited	10,000 00
Net addition to property account	$62,544 82

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$17,964 93	
Total passenger fares	$17,964 93	
Express and baggage	242 01	
Mails	818 80	
Total passenger department earnings		$19,025 74
Proportion for Michigan	$19,025 74	
Per train mile	70	
Per mile of road	880 41	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$156,526 14	
Total traffic	$156,526 14	
Total freight department earnings		$156,526 14
Proportion for Michigan	$156,526 14	
Per train mile	1 57	
Per mile of road	7,243 23	
Total transportation earnings		$175,551 88
Transportation earnings per mile of road	$8,123 64	
Transportation earnings per train mile	1 39	
Miscellaneous receipts from operating account other than for transportation		374 00
Total earnings from operation of road		$175,925 88
Total earnings per mile of road	$8,140 95	
Total earnings per train mile	1 39	
Proportion of taxable earnings for Michigan		$175,925 88
Total taxable earnings per mile of road in Michigan	8,140 95	
Total income from all sources		$175,925 88
Proportion of income for Michigan		$175,925 88

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$15,380 16
Renewals of ties	891 57
Repairs of bridges, including culverts and cattle guards	1,020 23
Repairs of buildings	1,479 12
Total	$18,771 08

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MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$8,528 68
Repairs of passenger cars	1,372 68
Repairs of freight cars	11,281 59
Total	$21,182 95

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$15,566 93
Oil and waste	1,703 89
Locomotive service	12,124 65
Passenger train service	1,500 00
Passenger train supplies	148 50
Freight train service	10,618 08
Freight train supplies	148 49
Damage and loss of freight and baggage	325 54
Personal injuries	500 00
Agents and station service	8,960 00
Station supplies	532 71
Rents of buildings and other property	1,000 00
Total	$53,128 74

GENERAL EXPENSES.

Salaries of the general officers of the company	$6,150 00
Salaries of clerks in general offices	2,886 34
Law expenses	182 00
Insurance	588 00
Stationery and printing	496 05
Outside agencies and advertising	68 62
Contingencies	1,227 07
Taxes	3,382 64
Total	$14,479 72

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	17.45	$18,771 08
Maintenance of motive power and cars	19.70	21,182 95
Conducting transportation	49.39	53,128 74
General expenses, including taxes	13.46	14,479 72
Total operating expenses and taxes	100.00	$107,562 49

Operating expenses and taxes per mile of road (21.61 miles)	$4,977 44
Operating expenses and taxes per train mile run, for trains earning revenue (126,147 miles)	85
Proportion of operating expenses and taxes for Michigan	107,562 49
Percentage of expenses to earnings	61
Net earnings per mile of road	3,163 51
Net earnings per train mile	54

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Hancock to Calumet, December 1, 1885.
From Junction to Lake Linden, December 1, 1885.
From Calumet to Allouez, March 12, 1887.
Allouez to Fulton, October 28, 1891.

MAIN LINE.

	Miles.
In Michigan, from Hancock to Fulton	19.11
Total length completed	19.11

BRANCHES.

Lake Linden branch, from Junction to Lake Linden	2.50
Total length of branches owned by company	2.50
Total length of branches owned by company in Michigan	2.50
Total length of road belonging to this company	21.61
Total length of road belonging to this company in Michigan	21.61
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	15.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	36.61

Gauge of track, 3 feet.

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Iron bridges	3	560
Wooden trestles	17	4,450
Total	20	5,010

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Mineral Range R. R. at Osceola.
Hecla & Torch Lake R. R. at Calumet.

What railroads cross your road either over or under your grade in this State and where?
None.

At what crossings are interlocking and derailing switches in operation?
Osceola.

What pattern or patterns have you adopted?
Pennsylvania Steel Co.

Number of crossings of highways at grade in this State	12
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad—over	1
Number of highway bridges less than 18 feet above track	1
Have safety guards been erected at overhead obstructions	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Wooden blocks are used.

Stations.

Number of stations on whole line	
Same in Michigan	6

Employés.

Number persons regularly employed on all roads operated by company, including officials	96
Same in Michigan	96

Classify your employés as per following list:

	Number.
Baggagemen	2
Brakemen	11
Conductors	4
Engineers	5
Firemen	6
Laborers	30
Shopmen	14
Yardmen	6
Others	18

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	6.25

Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:

Houghton county	34.00
Keweenaw county	.25

Road Bed and Track.

Number of track sections in Michigan	6
Average length of sections (miles)	4
Average number of men in each section gang	4
Number of new ties put in whole line during the year	4,477
Number of new ties put in track in Michigan	4,477
Average number of new ties per mile of road (36.61)	122
New rails put in track:	
Steel, tons 28.2, miles	.29

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Bridges and Culverts.

Amount of trestle work replaced with earth during the year	None.
Timber culverts replaced during the year:	
Trestle, 150 feet	1

New bridges built during the year,—None.

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	7	$59,710 25
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	3,000 00
Total	8	$62,710 25
Number of passenger cars— 8 wheel, including official cars	4	8,550 00
Number of express and baggage cars	1	250 00
Number of box freight cars	16	4,750 00
Number of wood cars	23	4,600 00
Number of platform cars	100	22,437 85
Number of ore cars	115	45,372 11
Other cars	4	280 00
Total	263	$148,950 21

Number of locomotives equipped with power brakes	5
Number of passenger-train cars equipped with power brakes	4
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse automatic air brake on 1 locomotive and 4 cars.
American vacuum driver brake on 5 locomotives.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Janney.

How are your passenger cars heated?
Baker hot water heaters.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	26,896
Miles run by freight trains during the year	99,251
Total mileage of trains earning revenue	126,147

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	77,011		
Total number of passengers carried	77,011		
Total passenger mileage, or passengers carried one mile	475,628		
Average distance traveled by each passenger		6.17	
Average amount received from each passenger			$0 23.32
Average rate of fare per mile for local passengers			03.77
Average rate of fare per mile for all passengers			03.77

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	889,947		
Total tons of freight carried	889,947		
Total freight mileage or tons carried one mile	6,745,238		
Average ton haul for all freight		7.57	
Average amount received for each ton haul			$0 17.58
Average rate per ton per mile received for all freight			02.32

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	3,376	.38
Flour	1,156	.13
Provisions (beef, pork, lard, etc.)	1,741	.20
Other agricultural products	1,374	.15
Lumber and forest products	39,305	4.42
Coal	35,058	3.94
Cord wood	130,782	14.69
Copper	22,331	2.51
Copper rock	641,812	72.12
Manufactures—articles shipped from point of production	3,954	.44
Merchandise and other articles not enumerated above	9,058	1.02
Total tons carried	889,947	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

The American Express Company; does a general express business; paying 20 cents per 100 pounds on all express freight carried; the express is taken at our depots.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

10 miles, belonging to Mineral Range R. R. Co.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

None.

INJURED.

None.

STATE OF MICHIGAN, } ss.
COUNTY OF HOUGHTON. }

C. A. Wright general manager, and C. M. Hoar, auditor, of the Hancock & Calumet Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

C. A. WRIGHT.
C. M. HOAR.

Subscribed and sworn to before me this 30th day of April, A. D. 1892.

[L. S.]

J. F. HAMBITZER,
Notary Public, Houghton Co., Mich.

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ANNUAL REPORT

OF THE

MINERAL RANGE RAILROAD COMPANY.

For the year ending December 31, 1891.

[Filed May 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CHARLES BARD, New York, N. Y.
Secretary and Treasurer, JOHN TULLY, New York, N. Y.
Auditor and Cashier, C. M. HOAR, Hancock, Mich.
General Manager, C. A. WRIGHT, Hancock, Mich.
Chief Engineer, W. J. WREN, Hancock, Mich.
General Passenger and Freight Agent, R. H. BRELSFORD, Hancock, Mich.
Attorneys, HUBBELL & GRAY, Houghton, Mich.

DIRECTORS.

CHAS. W. CASS, New York, N. Y.
RUSSELL SAGE, New York, N. Y.
WM. G. SMITH, New York, N. Y.
JOHN TULLY, New York, N. Y.
CHARLES BARD, Norwich, Conn.
COSTELLO LIPPITT, Norwich, Conn.
WM. R. SHELBY, Grand Rapids, Mich.
JOHN SHIGLUFF, Norristown, Pa.
HENRY S. HYDE, Springfield, Mass.
E. L. FERRY, New York, N. Y.
C. A. WRIGHT, Hancock, Mich.

STOCKHOLDERS. STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 3, 1871.
Number of stockholders at date of last election 45
Date of annual meeting of stockholders—Second Tuesday in July.
Fiscal year of company ends—December 31.
General offices of the company are located at Hancock, Mich.

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$146,504 63
Total expenses, including taxes		$78,032 54	
Net income			$68,472 09
Interest accrued prior to 1891	$33,596 47		
Interest on funded debt	17,087 50		
Interest on unfunded debt	7,693 12		
		$58,377 09	
Balance for the year			$10,095 00
Balance (profit and loss) last year			244,201 44
Items not included in above, as follows:			
Expense account reorganization and settlement of the affairs connected with the transactions of H. S. Ives & Co.		$51,413 70	
Balance forward to next year		202,882 74	
		$254,296 44	$254,296 44

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$400,000 00
Par value of shares	$100 00		
Number of shares issued	3,934		
Amount paid in on common		$393,400 00	
Total amount paid in, as per books of the company			$393,400 00
Paid in per mile of road owned by company—17 miles			$23,141 18

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Main line, June 1, 1873	8 %	June 1, 1888	New York	$20,400 00
Main line, Dec. 14, 1886	4 %	Jan. 1, 1937	" "	25,200 00
Consolidated, Jan. 1, 1891	5 %	Jan. 1, 1931	" "	600,000 00
Total funded debt				$645,600 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For equipment	Loans payable	$142,500 00
For miscellaneous	Accrued interest on bonds	8,925 00
For current balances		16,388 01
Total unfunded debt		$167,813 01

RECAPITULATION.

Total funded debt		$645,600 00
Total unfunded debt		167,813 01
Total debt liabilities		$813,413 01
Amount of debt liabilities per mile of road (17 miles)		$47,847 82
Total amount of stock and debt		1,206,813 01
Stock and debt per mile of road (17 miles)		70,989 00

GENERAL BALANCE SHEET.—Dr.

Construction account	$676,489 01	
Equipment account	120,517 26	
		$797,006 27
Cash items:		
Cash	$23,279 60	
Due from agents	1,012 66	
		24,292 26
Other assets:		
Materials and supplies	$14,299 07	
Debit balances from companies and individuals	43,414 15	
Stocks owned	252,684 00	
Bonds owned	278,000 00	
		588,397 22
Total		$1,409,695 75

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GENERAL BALANCE SHEET.—Cr.

Capital stock	$393 400 00	
Funded debt	645,600 00	
		$1,039,000 00
Unfunded debt:		
Interest unpaid, accrued on bonds	$8,925 00	
Notes payable	142,500 00	
Vouchers and accounts	16,388 01	
		167,813 01
Profit and loss or income accounts		202,882 74
Total		$1,409,695 75

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Brunches Built by Company.

Total expended for construction and equipment	$797,006 27
Average cost per mile of road (not included in sidings, 17 miles)	46,882 72
Proportion of cost for Michigan	797,006 27

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line and branches:	
Extensions and new sidings	$8,217 52
New buildings	6,818 12
Machinery and tools	1,775 00
New locomotives	8,305 43
New cars	11,517 79
Total	$36,633 86
Total charges to property account as above	$36,633 86
Property sold and credited	62 50
Net addition to property account	36,571 36

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$38,624 41	
Total passenger fares	$38,624 41	
Express and baggage	1,186 23	
Mails	978 60	
Total passenger department earnings		$40,789 24
Proportion for Michigan	$40,789 24	
Per train mile	1 17	
Per mile of road	2,399 37	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$101,527 24	
Total freight department earnings		$101,527 24
Proportion for Michigan	$101,527 24	
Per train mile	1 44	
Per mile of road	5,972 19	
Total transportation earnings		142,316 48
Transportation earnings per mile of road	$8,371 56	
Transportation earnings per train mile	1 85	
Miscellaneous receipts from operating account, other than for transportation		4,188 15
Total earnings from operation of road		$146,504 63
Total earnings per mile of road	$8,617 92	
Total earnings per train mile	1 39	

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Proportion of taxable earnings for Michigan		$146,504 63
Total taxable earnings per mile of road in Michigan	8,617 92	
Total income from all sources		$146,504 63
Proportion of income for Michigan		$146,504 63

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$9,644 85
Renewals of ties	2,660 68
Repairs of bridges, including culverts and cattle guards	312 81
Repairs of buildings and docks	6,935 13
Total	$19,553 47

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$1,868 16
Repairs of passenger cars	2,927 73
Repairs of freight cars	4,603 82
Total	$9,399 71

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$9,301 39
Oil and waste	1,142 74
Locomotive service	8,169 49
Passenger train service	2,690 70
Passenger train supplies	162 13
Freight train service	5,381 89
Freight train supplies	162 13
Damage and loss of freight and baggage	224 96
Damages to property and cattle	83 50
Personal injuries	65 00
Agents and station service	5,066 73
Station supplies	1,384 40
Operating P. L. draw bridge	2,525 99
Total	$36,309 95

GENERAL EXPENSES.

Salaries of the general officers of the company	$3,750 00
Salaries of clerks in general offices	2,361 35
Law expenses	200 00
Insurance	1,336 83
Stationery and printing	1,123 30
Outside agencies and advertising	91 70
Contingencies	822 09
Taxes	3,084 05
Total	$12,769 41

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	25.06	$19,553 47
Maintenance of motive power and cars	12.04	9,399 71
Conducting transportation	46.53	36,309 95
General expenses, including taxes	16.37	12,769 41
Total operating expenses and taxes	100.00	$78,032 54

Operating expenses and taxes per mile of road	$4,590 15
Operating expenses and taxes per train mile run, for trains earning revenue (105,284 miles)	74
Proportion of operating expenses and taxes for Michigan	78,032 54
Percentage of expenses to earnings 53	
Net earnings per mile of road	4,027 77
Net earnings per train mile	65

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Houghton to Red Jacket, March 26, 1886.

MAIN LINE.

	Miles.
In Michigan, from Houghton to Red Jacket	15.00
Total length completed	15.00

BRANCHES.

Franklin branch, from Franklin station to Quincy mine	2.00
Total length of branches owned by company	2.00
Total length of branches owned by company in Michigan	2.00
Total length of road belonging to this company	17.00
Total length of road belonging to this company in Michigan	17.00
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	9.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	26.00

Gauge of track 3 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	6	645
Total	6	645

Draw Bridges in Michigan.

How many on your line? One.

Where located, when built, and length of draw span:
Houghton, Mich., built in 1886, total length of draw span 180 feet.

Character of structure:
Howe truss spans, supported by wooden cribs filled with rip rap.

Material of which constructed:
Wood.

Height above water and depth of water under bridge:
Height above water 6 feet, depth of water 34 feet.

How swung, by engine or hand power?
Engine.

Approaches straight or curved:
Curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signalled?
All trains are required to come to a full stop before crossing draw; trains are signalled by flagman stationed at draw.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Hancock & Calumet at Osceola.
Hecla & Torch Lake at Calumet.

What railroads cross your road either over or under your grade in this State?
None.

At what crossings are interlocking and derailing switches in operation?
Osceola and Calumet.

What pattern or patterns have you adopted?
Pennsylvania Steel Co., Saxby & Farmer Machine.

Number of crossings of highways at grade in this State	18
Number of crossings of highways at grade in this State at which there are gates or flagmen	2
Number of crossings of highways over or under railroad—over 1, under 1	2
Number of highway bridges 18 feet above track	1

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Wooden blocks are used.

Stations.

Number of stations on whole line	4
Same in Michigan	4

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Employés.

Number persons regularly employed on all roads operated by company, including officials	93
Same in Michigan	93

Classify your employés as per following list:

	Number.
Baggagemen	4
Brakemen	8
Conductors	4
Engineers	5
Firemen	6
Laborers	22
Shopmen	18
Yardmen	12
Others	19

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	3

Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:

Houghton county	31

Road Bed and Track.

Number of track sections in Michigan	3
Average lengths of sections (miles)	7
Average number of men in each section gang	5
Number of new ties put in whole line during the year	12,753
Number of new ties put in track in Michigan	12,753
Average number of new ties per mile of road—entire line	750
New rails put in track:	
Steel (tons, 9.43), miles	.12

New bridges built during the year:
None.

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$16,116 73
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	6,857 07
Number of locomotives of 10 to 20 tons weight, exclusive of tender	4	21,118 30
Total	7	$44,092 10
Number of passenger cars—8-wheel, including official cars	8	24,496 12
Number of express and baggage cars	2	5,633 09
Number of box freight cars	66	20,444 21
Number of refrigerator cars	6	
Number of platform cars	99	25,086 19
Number of conductors' way cars	2	486 90
Other cars	4	278 65
Total	187	$120,517 26

Number of locomotives equipped with power brakes	5
Number of passenger train cars equipped with power brakes	10
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?

Westinghouse automatic air brake on 3 locomotives and 9 passenger cars.
Vacuum driver brake on 3 locomotives and 1 passenger car.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?

Yes.

What pattern or patterns have you adopted for use?

Blocker.

How are your passenger cars heated?

Spear stoves and heaters and Baker hot water heaters; all passenger cars on regular trains heated by Baker hot water heater.

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MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	34,814
Miles run by freight trains during the year	70,470
Total mileage of trains earning revenue	105,284

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	139,860		
Total number of passengers carried	139,860		
Total passenger mileage, or passengers carried one mile	1,053,061		
Average distance traveled by each passenger		7.52	
Average amount received from each passenger			$0 27.61
Average rate of fare per mile for local passengers			03.66
Average rate of fare per mile for all passengers			03.66

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	166,540		
Total tons of freight carried	166,540		
Total mileage of local freight	1,296,063		
Total freight mileage, or tons carried one mile	1,296,063		
Average ton haul for local freight		7.78	
Average ton haul for all freight		7.78	
Average amount received for each ton haul			$0 60.96
Average rate per ton per mile, received for local freight			07.83
Average rate per ton per mile, received for all freight			07.83

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	7,630
Flour	9,051
Provisions (beef, pork, lard, etc.)	10,584
Animals	289
Other agricultural products	15,859
Lumber and forest products	12,258
Coal	24,108
Cord wood	57,167
Copper	5,430
Manufactures,—articles shipped from point of production	13,133
Merchandise and other articles not enumerated above	11,031
Total forwarded	166,540

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	7,630	4.58
Flour	9,051	5.44
Provisions (beef, pork, lard, etc.)	10,584	6.36
Animals	289	.17
Other agricultural products	15,859	9.52
Lumber and forest products	12,258	7.36
Coal	24,108	14.48
Cord wood	57,167	34.33
Copper	5,430	3.25
Manufactures,—articles shipped from point of production	13,133	7.89
Merchandise and other articles not enumerated above	11,031	6.62
Total tons carried	166,740	100.00

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. runs on this road paying one and one-half times first-class freight rates for the transportation of express matter, which is received and delivered by this road at the depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

15 miles, belonging to this road.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

May 22, John Reagan, Highway. Attempting to jump upon refrigerator car from a lumber car, fell backward and struck on his head; head cut, accidental; died May 24.

INJURED.

None.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars						
Derailments						
Falling from trains		1				
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous						
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks						
Total		1				

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of casualties purely accidental	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employée.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1		1
Conductors			
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total	1		1

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STATE OF MICHIGAN, }
COUNTY OF HOUGHTON. } ss.

C. A. Wright, general manager, and C. M. Hoar, auditor, of the Mineral Range Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, C. A. WRIGHT.
C. M. HOAR.

Subscribed and sworn to before me this 30th day of April, A. D., 1892.
[L. S.]
J. T. HAMBITZER,
Notary Public, Houghton Co., Mich.

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ANNUAL REPORT

OF THE

AU SABLE & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 6, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. M. LOUD, Au Sable.
Vice President, GEO. A. LOUD, Au Sable.
Secretary, H. N. LOUD, Au Sable.
Auditor and Treasurer, W. F. LOUD, Au Sable.
General Manager, GEO. A. LOUD, Au Sable.
General Superintendent, H. PARK, McKinley.
Chief Engineer, A. E. WALKER, McKinley.
Superintendent of Telegraph, CHAS. BLAKER, McKinley.
General Passenger Agent, EDW. F. LOUD, Au Sable.
General Freight Agent, GEO. H. KEATING, Bay City.
Attorney, MAIN J. CONNINE, Au Sable.

DIRECTORS.

H. M. LOUD, Au Sable, Mich.
H. N. LOUD, Au Sable, Mich.
GEO. A. LOUD, Au Sable, Mich.
W. F. LOUD, Au Sable, Mich.
E. F. LOUD, Au Sable, Mich.
Terms expire July 22, 1893.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—July 22, 1891.
Number of stockholders at date of last electon 8
Number of stockholders in Michigan at same date 8
Fiscal year of company ends December 31.
General offices of the company are located at Au Sable.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$80,573 53
Total expenses, including taxes	$77,304 31	
Net income		$3,269 22

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$560,000 00
Par value of shares	$100 00	
Number of shares issued	None.	
Amount paid in on common	$41,500 00	
Total amount paid in, as per books of the company		$41,500 00
Paid in per mile of road owned by company (miles, 38.00)		$1,092 10

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction, For equipment, For real estate, For renewals, For miscellaneous, For current balances	To be paid	$132,827 33
Total unfunded debt		$132,827 33

RECAPITULATION.

Total unfunded debt		$132,827 33
Total debt liabilities		$132,827 33
Amount of debt liabilities per mile of road (38.00 miles)		$3,495 45
Total amount of stock and debt		174,327 33
Stock and debt per mile of road (38.00 miles)		4,587 56

GENERAL BALANCE SHEET.—Dr.

Construction account, Equipment account		$381,008 85
Other assets:		
Materials and supplies	$6,182 00	
Debit balances from companies and individuals	4,449 41	
		10,631 41
Total		$391,640 26

GENERAL BALANCE SHEET.—Cr.

Capital stock		$41,500 00
Unfunded debt:		
Notes payable	$121,047 65	
Vouchers and accounts	11,779 68	
		132,827 33
Profit and loss or income accounts		217,312 93
Total		$391,640 26

COST OF ROAD AND EQUIPMENT.

Purchased by present company.

When purchased—July 17, 1891.	
Original cost to present company, of road and equipment	$173,000 00
Average cost per mile of road, not including sidings (38.00 miles)	4,552 63

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Total passenger fares	$4,245 70	
Mails	116 68	
Total passenger department earnings		$4,362 38
Proportion for Michigan	$4,362 38	
Per train mile	43	
Per mile of road	114 78	

FREIGHT EARNINGS.

Main line and branches:		
Total freight department earnings		$76,211 15
Proportion for Michigan	$76,211 15	
Per train mile	2 18	
Per mile of road	2,005 55	
Total transportation earnings		$80,573 53
Transportation earnings per mile of road	$760 12	
Transportation earnings per train mile	1 76	
Total earnings from operation of road		$80,573 53
Total earnings per mile of road	760 12	
Total earnings per train mile	1 76	
Total income from all sources		$80,573 53
Proportion of income for Michigan		$80,573 53

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track Renewals of rails Renewals of ties Repairs of bridges, including culverts and cattle guards Repairs of fences, road crossings and signs Repairs of buildings	$5,406 77
Total	$5,406 77

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives Repairs of passenger cars Repairs of freight cars	$8,176 68
Total	$8,176 68

CONDUCTING TRANSPORTATION.

Fuel for locomotives Water supply Oil and waste Locomotive service Passenger train service Passenger train supplies Mileage of passenger cars Freight train service Freight train supplies Mileage of freight cars Telegraph expenses (maintenance and operating) Damage and loss of freight and baggage Damages to property and cattle Personal injuries Agents and station service Station supplies	$62,254 18
Total	$62,254 18

GENERAL EXPENSES.

Salaries of clerks in general offices	$794 75
Stationery and printing	384 35
Contingencies	287 58
Total	$1,466 68

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	----	$5,406 77
Maintenance of motive power and cars	----	8,176 68
Conducting transportation	----	62,254 18
General expenses, including taxes	----	1,466 68
Total operating expenses and taxes	100.00	$77,304 31

Operating expenses and taxes per mile of road	$729 28
Operating expenses and taxes per train mile run for trains earning revenue, 45,000 miles	1 71
Proportion of expenses for Michigan	77,304 31
Percentage of expenses to earnings	.96
Net earnings per mile of road	30 84
Net earnings per train mile	05

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
In Michigan, from Au Sable to McKinley	38.00
Total length completed	38.00

BRANCHES.

South branch, from McKinley to Meridian line	40.00
North branch, from McKinley to North branch	28.00
Total length of branches owned by company	68.00
Total length of branches owned by company in Michigan	68.00
Total length of road belonging to this company	106.00
Total length of road belonging to this company in Michigan	106.00

Gauge of track, 3 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	489
Wooden trestles	3	1,245
Total	5	1,734

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Detroit, Bay City & Alpena R. R. at Au Sable.

What railroads cross your road either over or under your grade in this State?
None.

At what crossings are interlocking and derailing switches in operation?
Au Sable, Mich.

What pattern or patterns have you adopted?
Second class interlocking, made by Union Switch & Signal Co.

Number of crossings of highways at grade in this State	22
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Number of crossings at which there are electric or automatic signals	None.

Stations.

Number of stations on whole line	13
Same in Michigan	13

Employés.

Number persons regularly employed on all roads operated by company, including officials	153
Same in Michigan	153

Classify your employés as per following list:	Number.
Baggagemen	1
Brakemen	11
Conductors	11
Engineers	15
Firemen	15
Laborers	85
Shopmen	7
Others	5

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?
Not required to fence.

Road Bed and Track.

Number of track sections in Michigan	6
Average length of sections (miles)	8
Average number of men in each section gang	5,000
Number of new ties put in whole line during the year	5,000
Number of new ties put in track in Michigan	131
Average number of new ties per mile of road	

ROLLING STOCK.

	Number.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	10
Number of locomotives of 10 to 20 tons weight, exclusive of tender	1
Total	11
Number of passenger cars—5 wheel, including official cars	2
Number of express and baggage cars	2
Number of box freight cars	5
Number of platform cars	23
Other cars as follows:	
Log	250
Total	282
Number of locomotives equipped with power brakes	11
Number of passenger train cars equipped with power brakes	4
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use and number of locomotives and cars with each?
Westinghouse air brake on 1 engine and 4 cars; Vacuum brakes on 3 engines; steam brake on 7 engines.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

How are your passenger cars heated?
Coal stoves.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	10,000
Miles run by freight trains during the year	35,000
Total mileage of trains earning revenue	45,000

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Total number of passengers carried	3,413		

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Total tons of freight carried	44,345		

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?
None.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?
70 miles telephone, owned by Au Sable & Northwestern R. R. Co.

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REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

None.

INJURED.

November 8, Edw. Carby, brakeman, 7 mile hill. Fell from car.

STATE OF MICHIGAN, } ss.
COUNTY OF IOSCO. }

H. M. Loud, president, and H. N. Loud, secretary, of the Au Sable & Northwestern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

H. M. LOUD.
H. N. LOUD.

Subscribed and sworn to before me this 5th day of May, A. D. 1892.

[L. S.]

FORREST C. EBLING,
Notary Public.

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ANNUAL REPORT

OF THE

TOLEDO & SOUTH HAVEN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed May 19, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. B. DODSON New York.
Vice President, C. J. MONROE, South Haven.
Secretary, W. G. SNOW, New York.
Treasurer, R. B. DODSON, New York.
General Manager and Receiver, J. IHLING, Lawton.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—April 21, 1876.
Fiscal year of company ends—December 31.
General offices of the company are located at Lawton Mich.

REMARKS.

On the 11th day of June, 1890, the affairs of this company were placed under a receivership, John Ihling being appointed Receiver.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$27,037 99
Total expenses, including taxes	$19,940 38	
Net income		$7,097 61

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$250,000 00
Par value of shares	$100 00	
Number of shares issued	2,500	
Total amount paid in, as per books of the company		$242,500 00
Paid in per mile of road owned by company—36.60 miles		$6,625 68

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	6%	1997	New York	$216,000 00
Total funded debt				$216,000 00

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UNFUNDED DEBT.

For miscellaneous		$540 76
Total unfunded debt		$540 76

RECAPITULATION.

Total funded debt	$216,000 00
Total unfunded debt	540 76
Total debt liabilities	$216,540 76
Amount of debt liabilities per mile of road (36.60 miles)	$5,916 41
Total amount of stock and debt	466,540 76
Stock and debt per mile of road (36.60 miles)	12,747 01

GENERAL BALANCE SHEET.—DR.

Construction account		$1,261 18
Cash items:		
Remitted to New York	$4,896 99	
Due from agents	406 62	
		5,303 61
Other assets:		
Government U. S. mail		532 82
Total		$7,097 61

GENERAL BALANCE SHEET.—CR.

Unfunded debt	$540 76
Profit and loss or income account	6,556 85
Total	$7,097 61

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$254,569 52
Average cost per mile of road (not included in sidings, 36.60 miles)	6,955 45
Proportion of cost for Michigan	254,569 52

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line:		
New buildings		$982 43
New fences		278 75
Total		$1,261 18
Total charges to property account as above		$1,261 18
Net addition to property account		1,261 18

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$13,837 50	
Express and baggage	1,091 18	
Mails	1,756 08	
Total passenger department earnings		$16,684 76
Per train mile	$0 59	
Per mile of road	455 84	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$10,353 23	
Total freight department earnings		$10,353 23
Per train mile	$0 45	
Per mile of road	282 88	
Total transportation earnings		$27,037 99

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Transportation earnings per mile of road	$738 74
Transportation earnings per train mile	52.67
Total earnings from operation of road	27,037 99
Total earnings per mile of road	738 74
Total earnings per train mile	52.67
Proportion of taxable earnings for Michigan	27,037 99
Total taxable earnings per mile of road in Michigan	738 74
Total income from all sources	27,037 99
Proportion of income for Michigan	27,037 99

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$4,912 48
Renewals of ties	592 83
Repairs of fences, road crossings and signs	28 00
Repairs of buildings	119 13
Total	$5,652 44

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$1,680 69
Repairs of cars	587 92
Total	$2,268 61

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,190 16
Water supply	12 00
Oil and waste	263 79
Locomotive service	2,366 58
Train service	1,306 53
Train supplies	14 71
Telephone expenses (maintenance and operating)	146 25
Damages to property and cattle	25 00
Agents and station service	3,338 93
Station supplies	89 15
Total	$9,703 10

GENERAL EXPENSES.

Salaries of the general officers of the company	$1,200 00
Insurance	54 25
Stationery and printing	302 92
Contingencies	4 10
Taxes	544 96
Total	$2,316 23

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	28.35	$5,652 44
Maintenance of motive power and cars	11.38	2,268 61
Conducting transportation	48.66	9,703 10
General expenses, including taxes	11.61	2,316 23
Total operating expenses and taxes	100.00	$19,940 38
Operating expenses and taxes per mile of road		$544 81
Operating expenses and taxes per train mile run, for trains earning revenue (51,832 miles)	.3884	
Proportion of operating expenses and taxes for Michigan		19,940 38
Percentage of expenses to earnings	73.75	
Net earnings per mile of road		$198 93
Net earnings per train mile		.1383

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Lawton to South Haven, August, 1887.

MAIN LINE.

	Miles.
In Michigan, from Lawton to South Haven	36.60
Total length completed	36.60
Total length of road belonging to this company	36.60
Total length of road belonging to this company in Michigan	36.60
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	1.20
Aggregate length of tracks in Michigan belonging to this company, computed as single track	37.80

Gauge of track—3 feet.

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	11	1,140
Total	11	1,140

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Chicago & West Michigan R. R. at Hartford.

At what crossings are interlocking and derailing switches in operation?
At Hartford.

What pattern or patterns have you adopted?
Scotch block, put in by Allentown, Pa., Rolling Mill Co.

Number of crossings of highways at grade in this State 21

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1881?
Yes.

How are they treated?
Blocked with wood.

Stations.

Number of stations on whole line	6
Same in Michigan	6

Employés.

Number persons regularly employed on all roads operated by company, including officials	31
Same in Michigan	31

Classify your employés as per following list:

	Number.
Baggagemen	1
Brakemen	1
Conductors	2
Engineers	2
Firemen	2
Laborers	12
Shopmen	1
Others	9

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	51.00
Give the number of miles required to complete fence both sides of your track in Michigan	21.00

Road Bed and Track.

Number of track sections in Michigan	6
Average lengths of sections (miles)	6
Average number of men in each section gang	2

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender	2	$8,000 00
Number of locomotives of 8 tons weight, exclusive of tender	1	3,000 00
Total	3	$11,000 00
Number of passenger cars—8-wheel, including official cars	2	$3,500 00
Number of combination passenger, express and baggage cars	2	2,500 00
Number of box freight cars	12	3,300 00
Number of platform cars	16	3,500 00
Other cars as follows	13	650 00
Total	45	$24,450 00

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Number of locomotives equipped with power brakes	2
Number of passenger-train cars equipped with power brakes	4
Number of freight cars equipped with power brakes	2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Eame's Vaccuum.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

How are your passenger cars heated?
With stoves.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	28,170
Miles run by mixed trains	23,162
Total mileage of trains earning revenue	51,332

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	41,932		
Total number of passengers carried	41,932		
Total passenger mileage, or passengers carried one mile	461,250		
Average distance traveled by each passenger		11	
Average amount received from each passenger			$0 33
Average rate of fare per mile for local passengers			03
Average rate of fare per mile for all passengers			03

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	10,134		
Total tons of freight carried	10,134		
Total mileage of local freight	222,948		
Total freight mileage, or tons carried one mile	222,948		
Average ton haul for all freight		22	
Average amount received for each ton haul			$1 02
Average rate per ton per mile, received for all freight			04.64

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	1,443
Flour	887
Provisions (beef, pork, lard, etc.)	29
Animals	472
Other agricultural products	352
Lumber and forest products	4,229
Coal	392
Plaster, lime and cement	227
Salt	183
Petroleum	86
Iron and castings	74
Stone, brick and sand	127
Manufactures—articles shipped from point of production	27
Merchandise and other articles not enumerated above	1,657
Total	10,134

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Grain	1,443	14.240
Flour	887	8.748
Provisions (beef, pork, lard, etc.)	29	.287
Animals	472	4.658
Other agricultural products	352	3.474
Lumber and forest products	4,229	41.732
Coal	392	3.868
Plaster, lime and cement	227	2.241

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	Tons.	Per cent.
Salt	132	1.304
Petroleum	86	.849
Iron and castings	74	.731
Stone, brick and sand	127	1.254
Manufactures,—articles shipped from point of production	27	.267
Merchandise and other articles not enumerated above	1,657	16.352
Total tons carried	10,134	100.000

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

None.

STATE OF MICHIGAN, } ss.
COUNTY OF VAN BUREN. }

J. Ihling, receiver of the Toledo & South Haven Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] J. IHLING, *Receiver.*

Subscribed and sworn to before me this 5th day of May, A. D. 1892.

[L. S.] JAS. H. HALL, *Notary Public.*

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ANNUAL REPORT

OF THE

CHICAGO, KALAMAZOO & SAGINAW RAILWAY COMPANY.

For the year ending December 31, 1891.

[Filed May 24, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, A. J. BOWNE, Grand Rapids, Mich,
Vice President and General Manager, FRED'K BUSH, Kalamazoo, Mich.
Secretary, Auditor and Treasurer, H. C. POTTER, Kalamazoo, Mich.
General Superintendent, L. SERGEANT, Kalamazoo, Mich.
General Passenger and Freight Agent, H. C. POTTER, Kalamazoo, Mich.

DIRECTORS.

* FRED'K BUSH, Kalamazoo, Mich.
W. S. DEWING, Kalamazoo, Mich.
LEROY CAHILL, Kalamazoo, Mich.
O. M. ALLEN, Kalamazoo, Mich.
H. F. BADGER, Kalamazoo, Mich.
A. J. BOWNE, Grand Rapids, Mich.
C. S. BURTON, Hastings, Mich.

Terms expire second Tuesday in September, 1892, or when successors are elected.

STOCKHOLDERS. STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 7, 1883; amended December 10, 1887.
Number of stockholders at date of last election 10
Number of stockholders in Michigan at same date—All.
Amount of full paid stock held in Michigan at same date—715 shares subscribed, 5 % paid in.
Date of annual meeting of stockholders—Second Tuesday in September.
Fiscal year of company ends—December 31.
General offices of the company are located at Kalamazoo, Mich.

REMARKS.

The Kalamazoo & Hastings Construction Company, limited, entered into a contract with the corporation October 11, 1886, to build its road, which is not yet completed. Pending construction the road is being operated by the Construction Company on its own account, and the earnings, operating expenses and data herein contained, are as furnished by said Construction Company for the purpose of making the report to the Commissioner of Railroads as required by law. No traffic statistics have been kept.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$51,627 07
Total expenses, including taxes	$32,840 29	
Net income		$18,786 78
Balance applicable to dividends		$18,786 78
Balance for the year		$18,786 78
Balance (profit and loss) last year		44,114 20
Balance forward to next year	$62,900 98	
	$62,900 98	$62,900 98

* Deceased.

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$2,000,000 00
Par value of shares	$100 00		
Number of shares issued	None.		
Amount paid in on shares not issued (number)	715	$3,575 00	
Total amount paid in, as per books of the company			$3,575 00
Paid in per mile of road owned by company			$25 00

ANALYSIS OF DEBT ACCOUNTS.

No debt accounts.

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

The road still being in the hands of the Construction Company no accurate or approximate details can be furnished.

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Total passenger fares	$22,658 44	
Express and baggage	708 71	
Mails	1,905 96	
Total passenger department earnings		$25,268 11
Proportion for Michigan	$25,268 11	
Per mile of road	571 65	

FREIGHT EARNINGS.

Main line and branches:		
Total traffic	$25,929 76	
Total freight department earnings		$25,929 76
Proportion for Michigan	$25,929 76	
Per mile of road	586 64	
Total transportation earnings		$51,197 87
Transportation earnings per mile of road	$1,158 32	
Miscellaneous receipts from operating account, other than for transportation:		
From telephone	$300 00	
From other sources	129 20	
		429 20
Total earnings from operation of road		$51,627 07
Total earnings per mile of road	$1,168 03	
Proportion of taxable earnings for Michigan		$51,627 07
Total taxable earnings per mile of road in Michigan	1,168 03	
Total income from all sources		$51,627 07
Proportion of income for Michigan		$51,627 07

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track Renewal of rails Renewals of ties Repairs of bridges, including culverts and cattle guards Repairs to fences, road crossings and signs Repairs of buildings	$8,030 32
Total	$8,030 32

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MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives Repairs of passenger cars Repairs of freight cars	$3,122 89
Total	$3,122 89

CONDUCTING TRANSPORTATION.

Fuel for locomotives and depots	$4,195 48
Water supply	108 08
Oil and waste	361 06
Locomotive, passenger train and freight train service	6,095 40
Passenger and freight train supplies	37 88
Mileage of passenger and freight cars	86 22
Telephone expenses, maintenance and operating	309 60
Damage and loss of freight and baggage Damages to property and cattle Personal injuries	8 57
Agents and station service	4,476 90
Station supplies	116 91
Total	$15,794 10

GENERAL EXPENSES.

Salaries of the general officers of the company	$3,300 00
Salaries of clerks in general offices	665 29
Insurance	58 50
Stationery and printing	379 85
Outside agencies and advertising	70 64
Contingencies	475 07
Taxes	943 83
Total	$5,892 98

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	24.00	$8,080 32
Maintenance of motive power and cars	10.00	3,122 89
Conducting transportation	48.00	15,794 10
General expenses, including taxes	18.00	5,892 98
Total operating expenses and taxes	100.00	$32,840 29

Operating expenses and taxes per mile of road		$743 00
Total proportion of expenses for Michigan		32,840 29
Percentage of expenses to earnings	63.6	
Net earnings per mile of road		425 08

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Kalamazoo, Michigan, to Woodbury, Michigan, September 1, 1889.

MAIN LINE.

	Miles.
In Michigan, from Kalamazoo to Woodbury	44.20
Total length completed	44.20
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	4.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	48.20

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	38	1,430
Total	38	1,430

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Cincinnati, Jackson & Mackinaw R'y at Richland Junction.
Michigan Central R. R. at Hastings.
Lake Shore & Michigan Southern R'y at Kalamazoo, connecting "Y."

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At what crossings are interlocking and derailing switches in operation?
Cincinnati, Jackson & Mackinaw R'y.
Michigan Central R. R.
Lake Shore & Michigan Southern R'y.

What pattern or patterns have you adopted?
Gravit Interlocking Switch & Signal Co.
Union Switch & Signal Co.

Number of crossings of highways at grade in this State	64
Number of crossings of highways at grade in this State at which there are gates or flagmen	1

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Wood.

Stations.

Number of stations on whole line	12
Same in Michigan	12

Employés.

Number persons regularly employed on all roads operated by company, including officials	48
Same in Michigan	48

Classify your employés as per following list:

	Number.
Brakemen	2
Conductors	2
Engineers	2
Firemen	2
Laborers	20
Yardmen	2
Others	18

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	87
Give the number of miles required to complete fence both sides of your track in Michigan	None.

Road Bed and Track.

Number of track sections in Michigan	7
Average lengths of sections (miles)	6.50
Average number of men in each section gang	3
Number of new ties put in whole line during the year	1,500

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	3	$13,000 00
Total	3	$13,000 00
Number of passenger cars—8-wheel, including official cars	2	$4,000 00
Number of express and baggage cars	1	1,200 00
Number of box freight cars	1	300 00
Number of platform cars	10	2,000 00
Number of conductors' way cars	1	200 00
Other cars	15	400 00
Total	30	$8,100 00

Number of locomotives equipped with power brakes	2
Number of passenger train cars equipped with power brakes	2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse, 2 locomotives.

MILEAGE, TRAFFIC, ETC.

Freight Traffic.

	Tons.
Total tons of freight carried	49,618

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ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?
American Express.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
45 miles, operated by telephone.

STATE OF MICHIGAN, } ss.
COUNTY OF KALAMAZOO. }

W. S. Dewing, general manager, and H. C. Potter, secretary, of the Chicago, Kalamazoo & Saginaw Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. S. DEWING.
H. C. POTTER.

Subscribed and sworn to before me this 23d day of May, A. D., 1892.
[L. S.] FRED H. DALEY.
Notary Public.

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ANNUAL REPORT

OF THE

SAINT JOSEPH VALLEY RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed May 24, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, A. A. PATTERSON, JR., Chicago.
Vice President, D. H. PATTERSON, Berrien Springs.
Secretary and General Manager, FRED McOMBER, Berrien Springs.
Treasurer, FRED L. REEVES, Berrien Springs.
Attorney, J. J. VAN RIPER, Niles, Mich.

DIRECTORS.

A. A. PATTERSON, JR., Chicago.
D. H. PATTERSON, Berrien Springs.
FRED McOMBER, Berrien Springs.
FRED L. REEVES, Berrien Springs.
JOHN A. PATTERSON, Albany, N. Y.
F. B. BENTON, Chicago.
J. J. VAN RIPER, Niles, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—August 1, 1889.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	4
Amount of full paid stock held in Michigan at same date	$400 00
Date of annual meeting of stockholders.—First Tuesday in April.	
Fiscal year of company ends December 31.	
General offices of the company are located at Berrien Springs, Mich.	

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$4,628 75
Total expenses	$5,052 28	
Deficit	$423 53	
Balance for the year, deficit		$423 53
Items not included in above, as follows:		
Suspense account		27,650 32
Balance forward to next year		$28,073 85

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$300,000 00
Par value of shares	$100 00	
Number of shares issued	3,000	
Amount paid in on common	$300,000 00	
Total amount paid in, as per books of the company		$300,000 00
Paid in per mile of road owned by company—10 miles		$30,000 00

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, Aug. 1, 1889	5%	Aug. 1, 1919	New York	$50,000 00
Total funded debt				$50,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction For equipment For real estate For renewals For miscellaneous For current balances	To be funded	$45,112 12
Total unfunded debt		$45,112 12

RECAPITULATION.

Total funded debt	$50,000 00
Total unfunded debt	45,112 12
Total debt liabilities	$95,112 12
Amount of debt liabilities per mile of road (10 miles)	9,511 21
Total amount of stock and debt	395,112 12
Stock and debt per mile of road (10 miles)	39,511 21

GENERAL BALANCE SHEET.—Dr.

Cost of road, franchise, etc.	$350,000 00	
Extension of line	15,989 42	
		$365,989 42
Debit balances from companies and individuals		1,048 85
Suspense account		28,073 85
Total		$395,112 12

GENERAL BALANCE SHEET.—Cr.

Capital stock	$300,000 00	
Funded debt	50,000 00	
		350,000 00
Unfunded debt:		
Interest unpaid, coupons	$5,000 00	
Notes payable	10,912 04	
Vouchers and accounts	29,200 08	
		45,112 12
Total		$395,112 12

COST OF ROAD AND EQUIPMENT.

Purchased by Present Company.

When purchased—Aug. 1, 1889.	
Original cost to present company of road and equipment	$350,000 00
Amount expended since purchase, account of construction } Also six miles graded extens'n	39,063 27
Amount expended since purchase, account of equipment }	
Total cost to date of report	389,063 27
Average cost per mile of road, not including sidings (10 miles)	38,906 32
Proportion of cost for Michigan	389,063 27

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ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line:		
Total passenger fares	$1,002 79	
Express and baggage	487 82	
Mails	434 38	
Total passenger department earnings		$1,924 99
Proportion for Michigan	$1,924 99	
Per mile of road	192 49	

FREIGHT EARNINGS.

Main line:		
Total traffic	$2,703 76	
Total freight department earnings		$2,703 76
Proportion for Michigan	2,703 76	
Per mile of road	270 38	
Total transportation earnings		$4,628 75
Transportation earnings per mile of road		$462 87
Total earnings from operation of road		4,628 75
Total earnings per mile of road		462 87
Proportion of taxable earnings for Michigan		4,628 75
Total income from all sources		4,628 75
Proportion of income for Michigan		4,628 75

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track Renewals of rails Renewals of ties Repairs of bridges, including culverts and cattle guards Repairs of fences, road crossings and signs Repairs of buildings	$1,656 89
Total	$1,656 89

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives Repairs of passenger cars Repairs of freight cars	$96 60
Total	$96 60

CONDUCTING TRANSPORTATION.

Fuel for locomotives Water supply Oil and waste Locomotive service Passenger train service Passenger train supplies Mileage of passenger cars Freight train service Freight train supplies Mileage of freight cars Telegraph expenses (maintenance and operating) Damage and loss of freight and baggage Damages to property and cattle Personal injuries Agents and station service Station supplies	$3,029 96
Total	$3,029 96

GENERAL EXPENSES.

Salaries of the general officers of the company Salaries of clerks in general offices Law expenses Insurance Stationery and printing Outside agencies and advertising Contingencies	$268 83
Total	$268 83

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RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	32.78	$1,656 89
Maintenance of motive power and cars	1.91	96 60
Conducting transportation	59.96	3,029 96
General expenses, including taxes	5.33	268 83
Total operating expenses and taxes	100.00	$5,052 28
Operating expenses and taxes per mile of road		$505 22
Proportion of operating expenses and taxes for Michigan		5,052 28
Percentage of expenses to earnings	100	

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Berrien Springs, Mich., to Buchanan, Mich., Aug. 1, 1889.

MAIN LINE.

	Miles.
In Michigan, from Berrien Springs to Buchanan	10
Total length completed	10
Total length of road belonging to this company	10
Total length of road belonging to this company in Michigan	10
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	.50
Aggregate length of tracks in Michigan belonging to this company computed as single track	10.50

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	11	1,529.8
Total	11	1,529.8

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and in what locality?
None.

What railroads cross your road either over or under your grade in this State?
None.

Number of crossings of highways at grade in this State 10
Number of crossings of highways at grade in this State at which there are gates or flagmen:
None.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Plank blocking.

Stations.

Number of stations on whole line—4 stops but only one depot building 4
Same in Michigan 4

Employés.

Number persons regularly employed on all roads operated by company, including officials. 8
Same in Michigan 8

Classify your employés as per following list:

	Number.
Brakemen	1
Conductors	1
Engineers	1
Firemen	1
Laborers	3
Others	1

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you? (estimated) 12
Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:
Berrien county (estimated) 8

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Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	10
Average number of men in each section gang	3
Number of new ties put in whole line during the year	287
Number of new ties put in track in Michigan	287
Average number of new ties per mile of road	23

New rails put in track, steel, tons 10.5.

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	
Total	1	
Number of passenger cars—8 wheel, including official cars	1	
Number of platform cars	1	
Total	2	
Number of locomotives equipped with power brakes		1

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

How are your passenger cars heated?
Stoves.

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?
American Express Co. 15 cts. per 100 lbs. $25 messenger. Take freight at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
None.

STATE OF MICHIGAN, } ss.
COUNTY OF BERRIEN. }

Fred L. Reeves, treasurer, of the St. Joseph Valley Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] FRED L. REEVES, *Treasurer.*

Subscribed and sworn to before me this 21st day of May, A. D. 1892.
[L. S.] FREMONT D. NICHOLS,
Notary Public.

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ANNUAL REPORT

OF THE

CINCINNATI, WABASH & MICHIGAN RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed May 28, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, M. E. INGALLS, Cincinnati, O.
Vice President, J. D. LAYNG, New York, N. Y.
Secretary, E. F. OSBORN, Cincinnati, O.
Auditor, L. B. COOKE, Elkhart, Ind.
Treasurer, NORMAN BECKLEY, Elkhart, Ind.
General Manager, N. P. RAMSEY, Elkhart, Ind.
General Superintendent, O. W. LAMPORT, Wabash, Ind.
Chief Engineer, W. G. BAILEY, Wabash, Ind.
Superintendent of Telegraph, L. J. BUSSARD, Wabash, Ind.
Cashier, E. S. COOKE, Elkhart, Ind.
General Passenger Agent, W. R. BALDWIN, Elkhart, Ind.
General Freight Agent, D. F. COE, Elkhart, Ind.
Attorney, C. E. COWGILL, Wabash, Ind.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—Reorganization April 14, 1880.	
Number of stockholders at date of last election	40
Number of stockholders in Michigan at same date	None.
Amount of full paid stock held in Michigan at same date	None.
Date of annual meeting of stockholders—Second Wednesday in April.	
Fiscal year of company ends June 30.	
General offices of the company are located at Elkhart, Ind.	

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$745,340 41
Total expenses, including taxes		$486,939 77	
Net income			$258,400 64
Interest on unfunded debt	$82,337 97		
Rentals of engines and cars	17,711 96		
		$100,049 93	
Balance applicable to dividends			158,350 71
Balance for the year			$158,350 71
Balance (profit and loss) last year			652,175 65
			$810,526 36
Items not included in above, as follows:			
P. & L., 1891			6,010 52
Balance forward to next year			$804,515 84

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			No fixed am't.
Par value of shares	$100 00		
Number of shares issued	20,438		
Amount paid in on common		$2,043,800 00	
Amount paid in on shares not issued		258 76	
Total amount paid in as per books of the company			$2,044,058 76
Paid in per mile of road owned by company (miles 202)			$10,119 10

ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.

For construction For equipment For real estate		$1,319,210 52
For renewals For miscellaneous For current balances		114,965 13
Total unfunded debt		$1,434,175 65

RECAPITULATION.

Total unfunded debt	$1,434,175 65
Total debt liabilities	$1,434,175 65
Amount of debt liabilities per mile of road	$7,080 27
Total amount of stock and debt	3,478,234 41
Stock and debt per mile of road	17,051 60

GENERAL BALANCE SHEET.—Dr.

Construction account	$3,412,586 25	
Equipment account	657,057 48	
Other investments:		
Plank's Tavern stock	15,000 00	
Benton Harbor Elevator	23,000 56	
		$4,107,644 24
Cash items:		
Cash	$9,745 97	
Bills receivable	1,300 00	
Due from agents	29,167 47	
		40,213 44
Other assets:		
Materials and supplies	$63,699 74	
Debit balances from companies and individuals	71,192 83	
		134,892 57
Total		$4,282,750 25

GENERAL BALANCE SHEET.—Cr.

Capital stock		$2,044,058 76
Unfunded debt:		
Notes payable	$1,319,210 52	
Vouchers and accounts	114,965 13	
		1,434,175 65
Profit and loss or income accounts		804,515 84
Total		$4,282,750 25

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$4,069,643 68
Average cost per mile of road (not included in sidings, 204 miles)	19,949 23
Proportion of cost for Michigan	663,311 89

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CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line:	
Extensions and new sidings	$100,446 98
New buildings	23,471 86
Machinery and tools	345 47
New cars	475 00
Total	$124,739 31
Net addition to property account	$124,739 31

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$208,701 97	
Through fares	55,550 91	
Total passenger fares	$264,252 88	
Express and baggage	13,717 05	
Mails	13,742 84	
Other sources	450 00	
Total passenger department earnings		$292,162 77
Proportion for Michigan	$38,972 79	
Per train mile	1.002	
Per mile of road	1,168 65	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$277,915 53	
Through traffic	170,842 77	
Total traffic	$448,758 30	
Other sources	4,419 34	
Total freight department earnings		453,177 64
Proportion for Michigan	$60,544 51	
Per train mile	1 32	
Per mile of road	1,812 71	
Total transportation earnings		$745,340 41
Transportation earnings per mile of road		2,981 36
Transportation earnings per train mile		1 16
Total earnings from operation of road		745,340 41
Total earnings per mile of road		2,981 36
Total earnings per train mile		1 16
Proportion of taxable earnings for Michigan		99,577 42
Total taxable earnings per mile of road in Michigan		2,489 44
Income other than from earnings		None.
Total income from all sources		$745,340 41
Proportion of income for Michigan		$99,577 42

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$54,885 93
Renewals of rails	13,594 00
Renewals of ties	21,505 95
Repairs of bridges, including culverts and cattle guards	9,253 16
Repairs of fences, road crossings and signs	4,082 13
Repairs of buildings	8,762 21
Total	$112,083 38

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$33,595 74
Repairs of passenger cars	13,449 76
Repairs of freight cars	16,430 50
Total	$63,476 00

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CONDUCTING TRANSPORTATION.

Fuel for locomotives	$58,216 34
Water supply	1,872 68
Oil and waste	2,992 25
Locomotive service	44,229 21
Passenger train service	13,586 53
Passenger train supplies	2,441 12
Mileage of passenger cars	845 49
Freight train service	41,505 09
Freight train supplies	3,648 86
Mileage of freight cars	8,204 47
Telegraph expenses (maintenance and operating)	8,648 90
Damage and loss of freight and baggage	1,036 08
Damages to property and cattle	683 00
Personal injuries	1,155 80
Agents and station service	48,283 52
Station supplies	2,249 82
Sundries	5,562 00
Total	$248,261 16

GENERAL EXPENSES.

Salaries of the general officers of the company	$16,576 76
Salaries of clerks in general offices	15,755 64
Law expenses	3,850 75
Insurance	1,998 00
Stationery and printing	6,195 85
Outside agencies and advertising	7,788 38
Contingencies	5,476 22
Taxes	14,962 73
Total	72,904 33

RECAPITULATION OF EXPENSES.

Maintenance of way and buildings	$112,082 39
Maintenance of motive power and cars	63,476 00
Conducting transportation	248,261 16
General expenses, including taxes	72,904 33
Total operating expenses and taxes	$496,723 87
Operating expenses and taxes per mile of road	$1,986 87
Operating expenses and taxes per train mile run, for trains earning revenue (631,149 miles)	78
Proportion of operating expenses and taxes for Michigan	66,362 13
Percentage of expenses to earnings 66.65	
Net earnings per mile of road	994 46
Net earnings per train mile	39

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Anderson, Ind., to Goshen, Ind., May 21, 1876.
From Goshen, Ind., to Benton Harbor, Mich., November 13, 1882.
From North Vernon, Ind., to Anderson, Ind., May 3, 1891.

MAIN LINE.

	Miles.
In Michigan, from state line to Benton Harbor	33.40
In Indiana, from state line to North Vernon, Ind.	216.50
Total length completed	249.90
Total length of road belonging to this company	249.90
Total length of road belonging to this company in Michigan	33.40
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	8.48
Aggregate length of tracks in Michigan belonging to this company, computed as single track	41.88

Gauge of track, 4 feet 8½ inches.

Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:

The V. G. & B. branch of the C., C. C. & St. L. R'y, extending from Rushville, Ind., to North Vernon, Ind., a distance of 46 miles, was added to the line of the C. W. & M. for traffic operation May 1, 1891.

Total miles operated by the company, 295.80.

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Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	8	1,355
Total	8	1,355

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
None.

What railroads cross your road either over or under your grade in this State and where?
Michigan Central R. R. at Niles, main line.
Michigan Central R. R. at Niles, South Bend division.

At what crossings are interlocking and derailing switches in operation?
None.

Number of crossings of highways at grade in this State	56
Number of crossings of highways at grade in this State at which there are gates or flagmen	3
Number of crossings at which there are electric or automatic signals	1
What pattern or patterns in use? Pneumatic.	
Number of crossings of highways over or under railroad—over 1, under 1	2
Number of highway bridges 18 feet above track	1
Number of highway bridges less than 18 feet above track	None.
Have safety guards been erected at overhead obstructions	Yes.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

How are they treated?
Blocked with wooden blocks.

Employés.

Number persons regularly employed on all roads operated by company, including officials	700
Same in Michigan	65

Classify your employés as per following list:

	Number.
Baggagemen	6
Brakemen	41
Conductors	18
Engineers	41
Firemen	43
Laborers	324
Shopmen	120
Yardmen	28
Others	79

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	66.8
Give the number of miles required to complete fence both sides of your track in Michigan,	None.

Road Bed and Track.

Number of track sections in Michigan		5
Average length of sections (miles)		6
Average number of men in each section gang		4
Number of new ties put in whole line during the year		105,179
Number of new ties put in track in Michigan		12,345
Average number of new ties per mile of road		420
New rails put in track: Steel, tons 163, miles	1.55	
Total miles of track laid with new rails		1.55

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	27	$135,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	8	24,000 00
Total	35	$159,000 00
Number of passenger cars— 8 wheel, including official cars	25	87,000 00
Number of express and baggage cars	6	12,000 00
Number of box freight cars	587	205,450 00
Number of stock cars	18	5,400 00
Number of platform cars	304	60,800 00
Number of conductors' way cars	12	4,800 00

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		Number.	Present estimated value.
Other cars as follows:			
Wrecking	3		
Pile driver	1		
Steam shovel	1		
Snow plow	1		
		6	$7,500 00
Total		958	$700,950 00

Number of locomotives equipped with power brakes	35
Number of passenger-train cars equipped with power brakes	31
Number of freight cars equipped with power brakes	None.

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Locomotives: 19 Westinghouse, 3 American, 13 Eames.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
On new equipment.

How are your passenger cars heated?
By the McElroy heating system, steam supplied from locomotive.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	291,445
Miles run by freight trains during the year	342,704
Total mileage of trains earning revenue	634,149

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	49,973		
Number of local passengers carried	382,871		
Total number of passengers carried	432,844		
Total passenger mileage, or passengers carried one mile	10,198,816		
Average distance traveled by each passenger		23.6	
Average amount received from each passenger			$0 61.0
Average rate of fare per mile for through passengers			02.5
Average rate of fare per mile for local passengers			02.5
Average rate of fare per mile for all passengers			02.5

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	170,185		
Number of tons of local freight carried	277,055		
Total tons of freight carried	447,240		
Total mileage of through freight	10,678,497		
Total mileage of local freight	23,930,083		
Total freight mileage or tons carried one mile	34,608,580		
Average ton haul for through freight		63.6	
Average ton haul for local freight		86.4	
Average ton haul for all freight		77.3	
Average amount received for each ton haul			$1 00.3
Average rate per ton per mile received for through freight			01.5
Average rate per ton per mile received for local freight			01.16
Average rate per ton per mile received for all freight			01.29

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	2,892
Flour	8,298
Provisions (beef, pork, lard, etc.)	6,966
Animals	4,989
Other agricultural products	80
Lumber and forest products	36,201
Plaster, lime and cement	2,690
Salt	204
Petroleum	625
Pig and bloom iron	409
Other iron and castings	1,540
Stone, brick and sand	295
Manufactures—articles shipped from point of production	6,250
Total forwarded	71,349

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Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	26,430	5.78
Flour	18,205	4.07
Provisions (beef, pork, lard, etc.)	1,420	.31
Animals	12,898	2.88
Other agricultural products	9,206	2.15
Lumber and forest products	180,440	40.34
Coal	28,620	6.39
Plaster, lime and cement	11,948	2.67
Salt	1,220	.27
Petroleum	9,444	2.11
Railroad iron, iron and steel rails	809	.18
Pig and bloom iron	2,290	.51
Other iron and castings	8,505	1.90
Ores	140	.03
Stone, brick and sand	32,990	7.37
Manufactures—articles shipped from point of production	82,560	18.45
Merchandise and other articles not enumerated above	20,115	4.59
Total tons carried	447,240	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot or at the office of such express companies?

United States Express Company. The C., W. & M. receive $14,400 per annum for transportation of express matter to the extent of 4,000 pounds per day, in excess of that amount of tonnage the rate is 65 cents per 100 pounds.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

204 miles; the C., W. & M. furnish the poles and wire and maintain the line; the Western Union Telegraph Company furnish the instruments for use at stations.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

March 25, Unknown boy, Benton Harbor. Trespasser; inquest did not hold company liable.

INJURED.

Not reported in detail.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers	Employés.	Others.	Passengers	Employés.	Others.
Collisions						
Coupling cars					5	
Derailments						
Falling from trains					2	
Frogs						
Getting on and off trains						
Highway crossings						2
Miscellaneous					2	
Overhead obstructions					1	
Trespassers on trains						
Trespassers on tracks			1			1
Total			1		10	3

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	13
Number of casualties purely accidental	4
Number resulting from lack of caution, carelessness, or misconduct	8
Trespassers and tramps killed or injured	2

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CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		7	7
Conductors			
Engineers			
Firemen			
Laborers		1	1
Shopman			
Yardmen		2	2
Not classified above			
Total		10	10

STATE OF OHIO, } ss.
COUNTY OF HAMILTON. }

Joseph Ramsey, jr., second vice president, and L. B. Cooke, auditor, of the Cincinnati, Wabash & Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

J. RAMSEY, JR.
L. B. COOKE.

[L. S. OF R. R.]

Subscribed and sworn to before me this 26th day of May, A. D. 1892.

JOSEPH MOSES,
Notary Public, Hamilton Co., Ohio.

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ANNUAL REPORT

OF THE

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY CO.

For the year ending December 31, 1891.

[Filed June 28, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, THOMAS LOURY, Minneapolis.
Vice President, R. B. LANGDON, Minneapolis.
Secretary and Treasurer, W. L. MARTIN, Minneapolis.
Auditor, C. W. GARDNER, Minneapolis.
General Manager, F. D. UNDERWOOD, Minneapolis.
Division Superintendents, E. PENNINGTON, Minneapolis.
W. M. KELLIE, Minneapolis.
Chief Engineer, SAMUEL B. FISHER, Minneapolis.
Traffic Manager, H. L. SHUTE, Minneapolis.
General Passenger Agent, C. B. HIBBARD, Minneapolis.
General Freight Agent, J. M. SAWYER, Minneapolis.
Attorney, ALFRED H. BRIGHT, Minneapolis.

DIRECTORS.

THOMAS LOURY, Minneapolis.
R. B. LANGDON, Minneapolis.
JOHN MARTIN, Minneapolis.
J. S. PILLSBURY, Minneapolis.
W. D. WASHBURN, Minneapolis.
F. N. FINNEY, Milwaukee.
W. C. VAN HORN, Montreal.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 12, 1888.

Number of stockholders at date of last election	73
Number of stockholders in Michigan at same date	None.
Amount of full paid stock held in Michigan at same date	None.

Date of annual meeting of stockholders—first Tuesday in June.
Fiscal year of company ends June 30.
General offices of the company are located at Minneapolis, Minn.

GENERAL EXHIBIT.

		Debit.	Credit.
Total income			$2,586,821 18
Total expenses, including taxes		$1,600,880 09	
Net income			$985,941 09
Interest on funded debt	$846,036 08		
Interest on unfunded debt	609 87		
Rentals of buildings, tracks, etc.	111,561 10		
		$958,207 05	
Balance applicable to dividends			$27,734 04
Items not included in above as follows:			
Company hotel earnings (credit)		$1,916 48	
Industrial development (debit)		1,034 30	
			882 18
Balance forward to next year			$28,616 22

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$21,000,000 00
Par value of shares		$100 00	
Number of shares issued	210,000		
Amount paid in on common (issued for stock of constituent companies per articles of consolidation)		$14,000,000 00	
Amount paid in on preferred		7,000,000 00	
Total amount paid in as per books of the company			$21,000,000 00
Paid in per mile of road owned by company—miles, 883.65			$23,765 06

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st mortgage M. & P. R'y bonds, Jan. 1, 1886	4 %	Jan. 1, 1936	New York	$3,525,000 00
1st mortgage M., S. S. & A. R'y bonds, Jan. 1, 1886	4 %	Jan. 1, 1926	New York	8,313,000 00
1st mtg M., S. P. & S. S. M. R'y con. bonds, July 1, '88	4 %	July 1, 1938	New York	9,162,000 00
*Income certificates			New York	771,000 00
The R. R. Equipment Co., Nov. 25, 1887		Monthly	New York	80,817 12
American Trust Co., June 20, 1890	7 %	Semi-annually	Chicago	39,332 51
Total funded debt				$21,891,649 63

* The income certificates were issued in exchange for 15% of outstanding bonds surrendered by holders; they draw 7% interest, provided the road earns it, after earning its fixed charges.

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For construction	To be paid from proceeds of $1,600,000.00 bonds	$212,712 47
For equipment	to be issued on 80 miles of road not yet bonded	112,800 00
For real estate	To be paid from sale of real estate	88,000 00
For miscellaneous	Interest from earnings and as above	825,825 72
For current balances	Interest from earnings and as above	501,202 61
Total unfunded debt		$1,735,540 80

RECAPITULATION.

Total funded debt	$21,891,649 63
Total unfunded debt	1,735,540 80
Total debt liabilities	$23,627,190 43
Amount of debt liabilities per mile of road (883.65 miles) $26,738.18	21,000,000 00
Total amount of stock and debt	$44,627,190 43
Stock and debt per mile of road (883.65 miles)	$50,508 24

GENERAL BALANCE SHEET.—Dr.

Construction account		$34,660,935 07	
Equipment account		2,598,963 29	
Other investments:			
Aberdeen, Bismarck & Northwestern	$5,394,232 84		
Preliminary surveys	21,714 23		
Real estate	154,161 99		
		5,570,109 06	
			$43,130,007 42
Cash items:			
Cash		$440,548 24	
Bills receivable		1,200 00	
Due from agents		153,507 57	
			595,255 81

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Other assets:			
Materials and supplies		$335,621 29	
Debit balances from companies and individuals		298,309 06	
Capital stock held by company	$225,600 00		
New Jersey Bridge Co. stock and sinking fund	7,710 77		
Minneapolis, St. Paul & Buffalo S. S. Co.	68,302 80		
		301,613 07	
			$930,543 42
Total			$44,655,806 65

GENERAL BALANCE SHEET.—Cr.

Capital stock	$21,000,000 00	
Funded debt	21,120,649 68	
Income certificates	771,000 00	
		$42,891,649 68
Unfunded debt	$560,275 00	
Notes payable	345,712 47	
Vouchers and accounts	783,516 74	
Other liabilities:		
Taxes	46,036 59	
		1,735,540 80
Profit and loss or income accounts		28,616 22
Total		$44,655,806 65

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$37,559,898 36
Average cost per mile of road (not included in sidings, 883.65 miles)	42,506 40
Proportion of cost for Michigan (192.01 miles)	8,161,461 85

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$1,864,820 86
New buildings	10,954 89
New fences	14,341 84
Machinery and tools	7,675 47
New locomotives	7,725 02
New cars	250,975 43
Total	$2,156,496 51

BRANCHES.

Camden Place cut off	54,911 36
Knox branch	28,673 75

LEASED OR PROPRIETARY ROADS.

Cheyenne branch	737,420 38
Boynton extension	81,004 86
Total charges to property account	$3,058,505 86

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$227,142 46	
Through fares	266,357 13	
Total passenger fares	$493,499 59	
Express and baggage	15,933 96	
Mails	60,614 93	
Other sources	32,333 38	
Total passenger department earnings		$602,381 86
Proportion for Michigan	$128,249 36	
Per train mile	96.7	
Per mile of road	666 75	

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FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$997,599 14	
Through traffic	935,800 92	
Total traffic	$1,933,400 06	
Other sources	2,012 19	
Total freight department earnings*		$1,935,412 25
Per train mile	$1 45	
Per mile of road	2,053 51.4	
Total transportation earnings		$2,537,794 11
Transportation earnings per mile of road (903.46 miles)	$2,808 97	
Transportation earnings per train mile (1,953,956 miles)	1 29	
Miscellaneous receipts from operating account other than for transportation:		
From telegraph (in Michigan $2,853.02)		11,051 86
From other sources (in Michigan $8,085.05)		37,975 21
Total earnings from operation of road†		$2,586,821 18
Total earnings per mile of road	$2,863 24	
Total earnings per train mile (1,953,956 miles)	1 32	
Proportion of taxable earnings for Michigan		$533,680 85
Total taxable earnings per mile of road in Michigan	2,774 53	
Total income from all sources		$2,586,821 18

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$171,704 53
Renewals of rails	498 36
Renewals of ties	17,421 06
Repairs of bridges, including culverts and cattle guards	11,167 52
Repairs of fences, road crossings and signs	2,181 26
Repairs of buildings	7,669 96
Repairs of docks and telegraph	7,074 24
Total	$217,716 93

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$108,929 91
Repairs of passenger cars	42,533 58
Repairs of freight cars	112,381 43
Repairs of shop tools and machinery	6,211 00
Total	$270,055 92

CONDUCTING TRANSPORTATION.

Fuel for locomotives		$256,016 01
Water supply		13,291 96
Oil and waste		15,394 45
Locomotive service		131,933 25
Passenger train service		29,972 78
Passenger train supplies		5,023 23
Mileage of passenger cars		4,653 57
Freight train service		85,352 58
Freight train supplies		2,897 74
Mileage of freight cars		48,481 88
Telegraph expenses, maintenance and operating		29,715 00
Damage and loss of freight and baggage		3,847 07
Damages to property and cattle		21,948 57
Personal injuries		40,259 78
Agents and station service		87,702 89
Station supplies		9,445 79
Operating docks	$56,555 85	
Wages of switchmen, watchmen, etc.	44,314 80	
Dining car expenses	23,363 85	
		124,233 50
Total		$808,899 15

* Less earnings computed on company's freight (for construction), $80,144.80.
† Includes $80,144.80 freight on company material.

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GENERAL EXPENSES.

Salaries of the general officers of the company	$45,222 10
Salaries of clerks in general offices	39,111 29
Law expenses	9,111 46
Insurance	10,654 88
Stationery and printing	15,489 67
Outside agencies and advertising	54,624 38
Contingencies	89,761 19
Taxes	40,233 12
Total	$304,208 09

RECAPITULATION OF EXPENSES.

	Per cent of Expenses.	
Maintenance of way and buildings	13.60	$217,716 93
Maintenance of motive power and cars	16.87	270,055 92
Conducting transportation	50.53	808,899 15
General expenses, including taxes	19.00	304,208 09
Total operating expenses and taxes	100.00	$1,600,880 09

Operating expenses and taxes per mile of road (903.46 miles)		$1,771 94
Operating expenses and taxes per train mile run, for trains earning revenue (1,953,956 miles)		81.9
Proportion of operating expenses and taxes for Michigan, main line:		
Taxes	$11,418 52	
Operating expenses	463,910 63	
Total proportion of expenses for Michigan	$475,329 15	
Percentage of expenses to earnings	61.9	
Net earnings per mile of road		1,091 30
Net earnings per train mile		50

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Minneapolis to Sault Ste. Marie, Jan. 1, 1888.
From Minneapolis to Lidgerwood, Dec. 20, 1886.
From Lidgerwood to Boynton, Oct. 29, 1887.
From Boynton to Merricourt, Nov. 5, 1891.

BRANCHES.

From Cardigan Junction to St. Paul, Feb. 23, 1888.
From Dresser Junction to St. Croix Falls, Sept. 12, 1887.
From Brantwood to end of track, Jan. 1, 1891.
From Camden Place to Northtown Junction, April 6, 1891.
From Hankinson to Valley City, Nov. 11, 1891.

MAIN LINE.

	Miles.
In Michigan, from Sault Ste. Marie to Menominee river	192.01
In Wisconsin, from Menominee river to St. Croix river	262.80
In Minnesota, from St. Croix river to North Dakota line	223.59
In North Dakota, from North Dakota line to Merricourt	108.78
Total length completed	787.18

BRANCHES.

Wisconsin, from Brantwood to end of track	4.57
Wisconsin, from Dresser Junction to St. Croix Falls	4.05
Minnesota, from Cardigan Junction to St. Paul	5.34
Minnesota, from Camden Place to Northtown Junction	1.01
North Dakota, from Hankinson to Valley City	81.50
Total length of branches owned by company	96.47
Total length of branches owned by company in Michigan	None.
Total length of road belonging to this company	883.65
Total length of road belonging to this company in Michigan	192.01
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	22.15
Aggregate length of tracks in Michigan belonging to this company, computed as single track	214.16

Gauge of track, 4 feet, 8½ inches.

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Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total miles.	In Michigan.
Minneapolis and St. Paul terminals, N. P. R'y	11.00	
Sault Ste. Marie terminals, D., S. S. & A.	.34	.34
St. Paul to Minneapolis, G. N. R'y	8.47	
Total	19.81	.34
Total miles operated by the company	903.46	192.35

The above mileage consists of the terminal tracks used by this company at Minneapolis, St. Paul and Sault Ste. Marie and owned by companies above mentioned.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	13	1,932
Wooden trestles	121	13,617
Total	134	15,549

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
D., S. S. & A. R'y at Trout Lake.
C. & N. W. R'y at Hermansville and Eustis.
Logging road at South Manistique, Delta Junction, Mills Coquins, Naubinway.

What railroads cross your road either over or under your grade in this State?

Over:
Chicago & Northwestern R'y at Flat Rock.
Under:
None.

At what crossings are interlocking and derailing switches in operation?
None.

Number of crossings of highways at grade in this State 47

Number of crossings of highways over or under railroad (over 2, under none) 2

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Blocked with plank or cinders and sand.

STATIONS.

Number of stations on whole line 100
Same in Michigan 17

EMPLOYES.

Number persons regularly employed on all roads operated by company, including officials... 1,583
Same in Michigan 326

Classify your employés as per following list:

	Number.
Baggagemen	10
Brakemen	110
Conductors	54
Engineers	80
Firemen	82
Laborers	697
Shopmen	244
Yardmen	23
Others	282

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you? 40
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:
Chippewa, Schoolcraft, Mackinac, and Menominee counties 344

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Road Bed and Track.

Number of track sections in Michigan	28
Average lengths of sections (miles)	7
Average number of men in each section gang	3
Number of new ties put in whole line during the year	70,466
Number of new ties put in track in Michigan	1,557
Average number of new ties per mile of road	90

New rails put in track:
Steel (tons 319), miles 6.4.

Total miles of track laid with new rails	6.4

Bridges and Culverts.

Amount of trestle work replaced with earth during the year (linear feet)	None.
Timber culverts replaced during the year	None.

New bridges built during the year:
None in Michigan.

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	62	
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	
Total	63	$449,539 72
Number of passenger cars—12-wheel, including official cars	6	60,899 26
Number of passenger cars—8-wheel, including official cars	26	130,470 66
Number of express and baggage cars	16	86,351 12
Number of box freight cars	3,010	1,123,887 71
Number of stock cars	25	8,347 20
Number of platform cars	815	232,123 47
Number of ore cars	148	62,103 07
Number of conductors' way cars	43	29,853 19

Other cars as follows:

Refrigerator	10		
Charcoal	36		
Steam shovel	1		
Furniture	10		
Ditcher	2		
Pile driver	1		
Tool cars	2		
Cinder cars	1		
Ash cars	2		
		65	$42,804 15
Total		4,154	$2,175,879 35

Number of locomotives equipped with power brakes	63
Number of passenger-train cars equipped with power brakes	48

What pattern of power brakes have you in use, and number of locomotives and cars with each?

Locomotives—Westinghouse air, 55; steam, 8	63
Coaches and baggage cars—Westinghouse air brakes	48

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Yes.

What pattern or patterns have you adopted for use?
Wilson and Blocker.

How are your passenger cars heated?
Baker Improved Fireproof Heater.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	577,559
Miles run by freight trains during the year	1,194,862
Miles run by mixed trains	181,535
Total mileage of trains earning revenue	1,953,956

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Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	87,281		
Number of local passengers carried	239,370		
Total number of passengers carried	326,651		
Total passenger mileage, or passengers carried one mile	22,146,612		
Average distance traveled by each passenger		67.73	
Average amount received from each passenger			$1 51
Average rate of fare per mile for through passengers			01.92
Average rate of fare per mile for local passengers			02.73
Average rate of fare per mile for all passengers			02.22

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	911,370		
Number of tons of local freight carried	536,051		
Total tons of freight carried	1,447,421		
Total freight mileage, or tons carried one mile	276,024,813		
Average ton haul for all freight		191	
Average amount received for each ton haul			$1 38
Average rate per ton per mile received for all freight			00.7

Freight Transported in Michigan.

	Forwarded, tons.
Grain	151,309
Flour and mill stuffs	140,650
Provisions (beef, pork, lard, etc.)	2,580
Animals	572
Other agricultural products, hay, fruit and vegetables	5,817
Lumber and forest products	138,197
Coal	81,936
Plaster, lime and cement	11,354
Salt	12,054
Petroleum	407
Railroad iron, iron and steel rails	732
Pig and bloom iron	6,034
Other iron and castings	3,635
Ores	274,089
Stone, brick and sand	1,098
Manufactures—articles shipped from point of production	3,043
Merchandise and other articles not enumerated above	64,716
Total forwarded	903,223

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	309,108	21.36
Flour and mill stuffs	152,051	10.51
Provisions (beef, pork, lard, etc.)	2,885	.19
Animals	4,987	.36
Other agricultural products, hay, fruit and vegetables	16,263	1.13
Lumber and forest products	437,349	30.21
Coal	91,092	6.28
Plaster, lime and cement	22,162	1.54
Salt	7,705	.54
Petroleum	708	.07
Railroad iron, iron and steel rails	11,964	.83
Pig and bloom iron	6,446	.44
Other iron and castings	8,920	.62
Ores	274,089	18.91
Stone, brick and sand	1,763	.15
Manufactures,—articles shipped from point of production	3,088	.22
Merchandise and other articles not enumerated above	96,841	6.69
Total tons carried	1,447,421	100.00

ADDITIONAL QUESTIONS.

Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. For a tonnage equal to 2,720 lbs. carried daily 494 miles, the compensation is per month $1,041.67. Excess to be paid at same proportionate rate.

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Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
886.88. To this company.

TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road in the State of Michigan during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

None.

Fast Freight Lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Arnold Refrigerator Co.	Chicago	$24 72
Arms Palace Horse Car Co.	"	1 14
Burton Stock Car Co.	"	1 45
Barrett & Barrett	"	1 73
Canada Cattle Car Co.	"	69
Chicago Refrigerator Car Co.	Buffalo N. Y.	1 45
Hammond Refrigerator Co.	Chicago	139 70
C. B. Havens & Co.	Omaha	1 11
Merchant's Dispatch Transportation Co.	New York	14 93
Swift Refrigerator Co.	Buffalo, N. Y.	2 22
Tropical Transportation Co.	Boston	3 42
Union Refrigerator Transportation Co.	St. Louis	4 02

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

September 2, James Fitzgerald, laborer, Gladstone coal dock. A piece of coal fell from overhead tram car, striking him on top of the head while he was trimming coal on top of an ore car which was being loaded.

INJURED.

January 6, Fred Leach, switchman, Gladstone. Fell between engine and platform; back and ankle injured.
January 26, John Drake, brakeman, Hermansville. Slipped from top of box car.
February 5, S. A. Colby, engineer, Manistique. Reversing lever.
March 20, W. G. Harrison, wiper, Gladstone. Bucket coal fell on foot.
April 3, Jacob Ackley, brakeman, Gladstone. Making coupling.
April 23, Peter J. Bedard, brakeman, Hunt's Spur. Fell from top step of car ladder.
April 29, A. Greenfield, bridge carpenter, Gladstone. Struck on foot by end of plank.
May 15, J. J. Murphy, conductor, Hermansville. Thumb sprained while getting into caboose.
May 18, Jas. O'Malley, brakeman, Gilchrist. Coupling cars on side track.
June 27, Albert Oleson, weigher, Gladstone. Fell from under derrick to coal pile.
June 30, Lincoln Brownell, fireman, Soo. Coupling between engine and passenger car.
July 6, Dean Nelson, fireman, Manistique. Hand injured by rivet while taking water.
July 13, James Finley, switchman, Soo. Coupling cars.
July 19, Willis Horton, wiper, Gladstone. Hand cut on guide while wiping engine.
August 6, Oliver Kruker, freight clerk, Gladstone. Foot caught in draw-bars.
August 21, J. E. Walker, machinist, Gladstone. Finger cut off by main rod of engine falling on.
September 6, Stanley Racey, switchman, Gladstone. Finger caught between draw bars.
September 11, Jacob Ackley, brakeman, Manistique. Finger caught between draft iron and deadwood.
September 21, Geo. W. Parker, wiper, Gladstone. Slipped on pilot of engine.
September 24, Wm. Barlow, machinist, Gladstone. Cinder in eye.
September 30, Robert Warren, brakeman, Farnham. Stepped through bridge.
October 2, Henry Bonno, laborer ore dock, Gladstone. Fell from top of car down ore chute.
October 3, Wm. O'Malley, brakeman, Gladstone. Struck by engine step of a passing train.
October 5, Her. Anderson, laborer, Gladstone. Fingers crushed by track jack.
October 5, Eli Eaton, foreman ore dock, Gladstone. Fell into ore chute.
October 13, James Boyle, switchman, Gladstone. Fell from top of car, account of derailment.
November 1, J. Fitzsimons, laborer flour dock, Gladstone. Sack of flour fell off slide, injuring knee.
November 3, John Blumquist, coal heaver, Gladstone. Struck with falling coal.
November 3, Peter Peterson, coal heaver, Gladstone. Struck with falling coal.
November 11, Jacob Ackley, brakeman, Gladstone. Fell from top of car.
November 14, Fred Hinman, engineer, Gladstone. Driving brake fell on hand.

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November 16, Mike Brady, switchman, Gladstone. Coupling cars.
November 16, John Sabo, machinist, Gladstone. Disconnecting engine from tender.
November 23, George Burke, lumberman, Rapid River. Struck by train while walking on track.
December 3, Jno. Williamson, engine dispatcher, Gladstone. Back sprained while lifting casting.
December 3, Daniel Melane, wiper, Gladstone. Fell into engine pit in roundhouse.
December 8, Harry Morgan, switchman, Gladstone. Fell from ladder while holding telegraph wires.
December 8, Frank Nairnie, brakeman, Manistique. Finger cut off coupling cars.
December 9, Alex. McIntyre, engineer, Gladstone. Cinder in eye.
December 19, Pat. McCormick, laborer, Gladstone. Fell from plank while wheeling coal.
December 29, Tho. L. Miller, brakeman, Corliss. Fell off box car.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					6	
Derailments					1	
Falling from trains					7	
Frogs						
Getting on and off trains					1	
Highway crossings						
Miscellaneous		1			25	
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks					1	
Total		1			41	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	41
Trespassers and tramps injured	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		10	10
Conductors		1	1
Engineers		3	3
Firemen		2	2
Laborers	1	7	8
Shopmen		3	3
Yardmen		11	11
Not classified above		3	3
Total	1	40	41

STATE OF MINNESOTA, } ss.
COUNTY OF RAMSEY. }

F. D. Underwood, general manager, and C. W. Gardner, auditor, of the Minneapolis, St. Paul & Sault Ste. Marie Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

F. D. UNDERWOOD,
C. W. GARDNER.

Subscribed and sworn to before me this 25th day of June, A. D. 1892,

[L. S.]

T. I. HURD,
Notary Public, Ramsey Co., Minn.

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ANNUAL REPORT

OF THE

GOGEBIC & MONTREAL RIVER RAILROAD.

OPERATED BY THE NORTHERN PACIFIC RAILROAD COMPANY, LESSEE OF THE SO-CALLED WISCONSIN CENTRAL LINES.

For the year ending December 31, 1891.

[Filed May 19, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Auditor, M. P. MARTIN, St. Paul, Minn.
Assistant Treasurer, C. A. CLARK, St. Paul, Minn.
General Manager, L. R. AINSLIE, Chicago, Ill.
General Superintendent, G. CAMPBELL, Chicago, Ill.
Division Superintendent, A. R. HORN, Stevens Point.
Chief Engineer, F. W. FROTH, Milwaukee.
Superintendent of Telegraph, O. C. GREENE, St. Paul.
General Passenger Agent, JAS. C. POND, Chicago.
General Freight Agent, J. B. CAVANAUGH, Chicago.

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$2,879 68	
Through fares	1,727 57	
Total passenger fares	$4,607 25	
Express and baggage	217 83	
Mails	297 48	
Total passenger department earnings		$5,122 56
Proportion for Michigan	$5,122 56	
Per train mile	63.96	
Per mile of road	380 29	

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$829 71	
Through traffic	17,062 02	
Total traffic	$17,891 73	
Other sources	725 20	
Total freight department earnings		$18,616 93
Proportion for Michigan	$18,616 93	
Per train mile	96.28	
Per mile of road	1,382 10	
Total transportation earnings		$23,739 49

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Transportation earnings per mile of road	$1,762 40	
Transportation earnings per train mile	86.81	
Miscellaneous receipts from operating account, other than for transportation:		
From rentals of tracks and terminals		$14 71
Total earnings from operation of road		$23,754 20
Total earnings per mile of road	$1,763 49	
Total earnings per train mile	86.87	
Proportion of taxable earnings for Michigan		$23,754 20
Total taxable earnings per mile of road in Michigan	1,763 49	
Total income from all sources		$23,754 20
Proportion of income for Michigan		$23,754 20

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$2,119 61
Renewal of rails	107 40
Renewals of ties	488 37
Repairs of bridges, including culverts and cattle guards	289 30
Repairs to fences, road crossings and signs	94 11
Repairs of buildings	211 76
Total	$3,310 55

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$980 12
Repairs of passenger cars	468 95
Repairs of freight cars	1,455 37
Total	$2,904 44

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,701 19
Water supply	135 50
Oil and waste	65 31
Locomotive service	2,132 29
Passenger train service	393 45
Passenger train supplies	215 27
Mileage of passenger cars	33 86
Freight train service	1,079 93
Freight train supplies	143 32
Mileage of freight cars	174 85
Telegraph expenses, maintenance and operating	419 24
Damage and loss of freight and baggage	77 78
Damages to property and cattle	35 20
Personal injuries	79 68
Agents and station service	2,521 17
Station supplies	121 72
Wrecking	34 42
Total	$10,364 18

GENERAL EXPENSES.

Salaries of the general officers of the company	$347 35
Salaries of clerks in general offices	427 12
Law expenses	106 46
Insurance	84 96
Stationery and printing	228 53
Outside agencies and advertising	802 44
Contingencies	303 97
Rents	163 81
Total	$2,464 67

RECAPITULATION OF EXPENSES.

	Per cent of expenses	
Maintenance of way and buildings	17.38	$3,310 55
Maintenance of motive power and cars	15.25	2,904 44
Conducting transportation	54.42	10,364 18
General expenses, including taxes	12.95	2,464 67
Total operating expenses	100.00	$19,043 84

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Operating expenses per mile of road		$1,413 80
Operating expenses per train mile run, for trains earning revenue		69.64
Proportion of operating expenses for Michigan		19,043 84
Percentage of expenses to earnings	80.17	
Net earnings per mile of road		350 44
Net earnings per train mile		17.23

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From state line, Ironwood, to Bessemer, June 6, 1887.

MAIN LINE.

	Miles.
In Michigan, from state line to Bessemer	6.84

BRANCHES.

Ashland Mine spur, from connection with main line to Ashland Mine	.62
Colby Mine main spur to shaft No. 15, from connection with main line to South 15 Mine	1.94
Colby Mine Switch Back, from connection with main line to Colby Mine	1.42
Palm's Mine spur, from connection with main line to Palm's Mine	2.65
Total length of branches owned by company	6.63
Total length of branches owned by company in Michigan	6.63
Total length of road belonging to this company	13.47
Total length of road belonging to company in Michigan	13.47
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	7.76
Aggregate length of tracks in Michigan belonging to this company, computed as single track	21.23

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	4	314
Wooden trestles	7	3,031
Total	11	3,345

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Anvil Mine spur, M., L. S. & W., crosses Palm's Mine spur at Palm's Mine, near Bessemer.
Valley Mine spur, M., L. S. & W., crosses Colby Mine spur at Bessemer.

What railroads cross your road either over or under your grade in this State, and where?
Over:
None.

Under:
M., L. S. & W. R'y at Ironwood, Siemen's and Bessemer.
D., S. S. & A. R'y at west of Bessemer.

At what crossings are interlocking and derailing switches in operation?
None.

Number of crossings of highways at grade in this State	5
Number of crossings of highways at grade in this State at which there are gates or flagmen	1
Number of crossings at which there are electric or automatic signals	None.
Number of crossings of highways over or under railroad (over, none; under 1)	1
Number of highway bridges 18 feet above track	None.
Number of highway bridges less than 18 feet above track	None.

Have safety guards been erected at over-head obstructions?
Yes.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Filled in with wooden blocks.

Stations.

Number of stations on whole line	3
Same in Michigan	3

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Employés.

Number persons regularly employed on all roads operated by company, including officials	44
Same in Michigan	44

Classify your employée as per following list·

	Number.
Baggagemen	1
Brakemen	5
Conductors	2
Engineers	4
Firemen	4
Laborers	17
Yardmen	6
Others	5

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	5.3

Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:

Gogebic county	1.33

No fencing required on south side of track from Ironwood to Siemens, as right of way is parallel with and adjacent to M., L. S. & W. R'y right of way.

Total miles required	1.33

Road Bed and Track.

Number of track sections in Michigan	2
Average lengths of sections (miles)	6.73
Average number of men in each section gang	7
Number of new ties put in whole line during the year	3,766
Number of new ties put in track in Michigan	3,766
Averace number of new ties per mile of road	279
New rails put in track	None.

Bridges and Culverts.

Amount of trestle work replaced with earth during the year	None.
Timber culverts replaced during the year	None.
New bridges built during the year	None.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by passenger trains during the year	8,009
Miles run by freight trains during the year	19,336
Total mileage of trains earning revenue	27,345

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of through passengers carried	15,948		
Number of local passengers carried	15,943		
Total number of passengers carried	31,891		
Total passenger mileage, or passengers carried one mile	152,387		
Average distance traveled by each passenger		4.776	
Average amount received from each passenger			$0 14.447
Average rate of fare per mile for through passengers			03.1773
Average rate of fare per mile for local passengers			02.9394
Average rate of fare per mile for all passengers			03.0243

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Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of through freight carried	522,584		
Number of tons of local freight carried	829		
Total tons of freight carried	523,413		
Total mileage of through freight	1,302,555		
Total mileage of local freight	4,974		
Total freight mileage, or tons carried one mile	1,307,529		
Average ton haul for through freight		2.49	
Average ton haul for local freight		6.00	
Average ton haul for all freight		2.50	
Average amount received for each ton haul			$0 03.42
Average rate per ton per mile received for through freight			01.31
Average rate per ton per mile, received for local freight			16.66
Average rate per ton per mile, received for all freight			01.37

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Grain	2
Flour	9
Provisions (beef, pork, lard, etc.)	79
Animals	37
Other agricultural products	191
Lumber and forest products	529
Coal	18
Salt	1
Petroleum	88
Railroad iron, iron and steel rails	32
Other iron and castings	72
Ores	470,501
Stone, brick and sand	43
Merchandise and other articles not enumerated above	509
Total forwarded	472,501

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Grain	343	.066
Flour	157	.030
Provisions (beef, pork, lard, etc.)	183	.035
Animals	156	.030
Other agricultural products	2,502	.478
Lumber and forest products	15,659	2.992
Coal	27,981	5.346
Plaster, lime and cement	40	.008
Salt	13	.002
Petroleum	563	.107
Railroad iron, iron and steel rails	77	.015
Other iron and castings	457	.087
Ores	470,501	89.908
Stone, brick and sand	683	.130
Manufactures—articles shipped from point of production	579	.111
Merchandise and other articles not enumerated above	3,429	.655
Total tons carried	523,413	100.00

ADDITIONAL QUESTIONS.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
There are two wires between state line and Bessemer, 6.86 miles, one wire operated by the railroad company and one by Western Union Telegraph Co.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1891.

KILLED.

August 24, Anna Markonetoz, Ironwood. Trespassing.

INJURED.

June 13, Michael Cain, switchman, Ironwood. Lack of caution.
September 3, Peter Netzinger, switchman, Ironwood. Lack of caution.
September 12, Wm. Buckley, engineer, Bessemer. Purely accidental.
September 21, M. J. Wilson, engineer, Ironwood. Lack of caution.
October 26, Edwd. Murphy, brakeman, Ironwood. Purely accidental.

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TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars						
Derailments						
Falling from trains						
Frogs						
Getting on and off trains						
Highway crossings						
Miscellaneous					5	
Overhead obstructions						
Trespassers on trains						
Trespassers on tracks			1			
Total			1		5	

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	5
Number of casualties purely accidental	2
Number resulting from lack of caution, carelessness, or misconduct	3
Trespassers and tramps killed or injured	1

CLASSIFICATION OF EMPLOYES.

KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		1	1
Conductors			
Engineers		2	2
Firemen			
Laborers			
Shopmen			
Yardmen		2	2
Not classified above			
Total		5	5

STATE OF MINNESOTA, } ss.
COUNTY OF RAMSEY. }

I, M. P. Martin, auditor, of the Gogebic & Montreal River Railroad Co., operated by Northern Pacific Railroad Co., lessee of the so-called Wisconsin Central Lines, being duly sworn, depose and say that I have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of my knowledge and belief.

[L. S. OF R. R.] Signed, M. P. MARTIN,
Auditor Wisconsin Central Lines.

Subscribed and sworn to before me this 17th day of May, A. D. 1892.
[L. S.] JAMES H. A. HIRST,
Notary Public, Ramsey Co., Minn.

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ANNUAL REPORT

OF THE

GOGEBIC & MONTREAL RIVER RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed September 26, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, EDWIN H. ABBOTT, Boston, Mass.
Secretary, HOWARD MORRIS, Milwaukee, Wis.
Treasurer, EDWIN H. ABBOTT, Boston, Mass.

DIRECTORS.

EDWIN H. ABBOTT, Cambridge, Mass.
FREDERICK ABBOTT, Milwaukee, Wis.
HOWARD MORRIS, Milwaukee, Wis.
WILLIAM SHIMWELL, Milwaukee, Wis.
THOMAS H. GILL, Chicago, Ills.
Terms expire at annual election.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—December 27, 1883.

Number of stockholders at date of last election	6
Number of stockholders in Michigan at same date	None.
Amount of full paid stock held in Michigan at same date	None.

Date of annual meeting of stockholders, last Saturday in May.
Fiscal year of company ends June 30.
General offices of the company are located at Milwaukee, Wis.

REMARKS.

Railroad leased to the Northern Pacific Railroad Company, which operates the road, for 999 years, by instrument dated April, 1890.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$600,000 00
Par value of shares	$100 00		
Average price received per share	100 00		
Number of shares issued	6,000		
Amount paid in on common		$600,000 00	
Total amount paid in, as per books of the company			$600,000 00
Paid in per mile of road owned by company (13.47 miles)			$44,543 43

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bond, Sept. 1, 1886	5%	March 1, 1937	New York	$390,000 00
Income bond, Sept. 1, 1886	5% cumulative	March 1, 1937	New York	130,000 00
Total funded debt				$520,000 00

UNFUNDED DEBT.

None.

RECAPITULATION.

Total funded debt	$520,000 00
Total debt liabilities	520,000 00
Amount of debt liabilities per mile of road [13.47 miles]	38,604 30
Total amount of stock and debt	1,120,000 00
Stock and debt per mile of road	83,147 73

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction	$1,205,565 25
Average cost of construction per mile of road (not included in sidings, 13.47 miles)	89,500 00
Proportion of cost of construction for Michigan	1,205,565 25

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
June 6, 1887.

MAIN LINE.

	Miles.
Length completed in Michigan	6.84
Total length completed	6.84

BRANCHES.

Michigan, additional track	6.63
Total length of branches owned by company	6.63
Total length of branches owned by company in Michigan	6.63
Total length of road belonging to this company	13.47
Total length of road belonging to this company in Michigan	13.47
Aggregate length of sidings, spurs and other tracks not above enumerated	5.63
Same in Michigan	5.63
Aggregate length of tracks belonging to this company computed as single track	19.10
Same in Michigan	19.10

Gauge of track 4 feet 8½ inches.

STATE OF WISCONSIN, } ss.
COUNTY OF MILWAUKEE. }

Howard Morris, secretary, of the Gogebic & Montreal River Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] HOWARD MORRIS, *Secretary.*

Subscribed and sworn to before me this 24th day of September, A. D. 1892.

[L. S.] WM. SHIMWELL,
Notary Public, Milwaukee Co., Wis.

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ANNUAL REPORT

OF THE

BAY CITY BELT LINE RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 29, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALBERT MILLER, Bay City, Mich.
Vice President, WILSON H. TOUSEY, Bay City, Mich.
Secretary, CHESTER L. COLLINS, Bay City, Mich.
Treasurer, JOSEPH TURNER, Bay City, Mich.
Chief Engineer, GEORGE TURNER, Bay City, Mich.
Attorney, CHESTER L. COLLINS, Bay City, Mich.

DIRECTORS.

E. T. CARRINGTON, Bay City, Mich.
C. L. COLLINS, Bay City, Mich.
G. HENRY SHEARER, Bay City, Mich.
ALBERT MILLER, Bay City, Mich.
JOSEPH TURNER, Bay City, Mich.
GEORGE TURNER, Bay City, Mich.
WILSON H. TOUSEY, Bay City, Mich.
Terms expire first Monday in June, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 13, 1889.
Number of stockholders at date of last electon..... 7
Number of stockholders in Michigan at same date..... 6
Date of annual meeting of stockholders—First Monday in June.
Fiscal year of company ends—First Monday in June.
General offices of the company are located at Bay City, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total expenses, including taxes	$13,999 40	

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association				$100,000 00
Par value of shares		$100 00		
Number of shares issued	939		$93,900 00	
Amount paid in on shares not issued (number)	70		1,784 95	
Total amount paid in, as per books of the company				$94,374 95
Paid in per mile of road owned by company—miles 6.29				$15,061 20

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GENERAL BALANCE SHEET.—Dr.

Construction account	$54,178 43	
Other investments:		
Right of way	21,822 12	
Expense account	13,999 40	
Real estate	3,685 00	
		$93,684 95
Cash items:		
Cash		1,050 00
Total		$94,734 95

GENERAL BALANCE SHEET.—Cr.

Capital stock	$94,734 95
Total	$94,734 95

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$54,178 43
Average cost per mile of road (not included in sidings, 6.29 miles)	8,613 35

ANALYSIS OF EXPENSES.

GENERAL EXPENSES.

Law expenses	$2,530 95
Contingencies	11,481 20
Total	$14,012 15

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
In Michigan	6.29
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	.50
Aggregate length of tracks in Michigan belonging to this company, computed as single track	6.79

Gauge of track, 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	1	23
Total	1	23

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
Detroit & Bay City R. R. at 1,440.60 feet south of center line of Center avenue, Bay City.

At what crossings are interlocking and derailing switches in operation?
One at the crossing of the Detroit & Bay City railroad at point 1,440.60 feet south of center line of Center avenue, Bay City.

Number of crossings of highways at grade in this State	21

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	10
Give the number of miles required to complete fence both sides of your track in Michigan	None.

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Road Bed and Track.

Number of track sections in Michigan	1
Average lengths of sections (miles)	6.29
Average number of men in each section gang	4
Number of new ties put in whole line during the year	2,300
Number of new ties put in track in Michigan	2,300
Average number of new ties per mile of road	2,600
New rails put in track, steel—miles	1.87
Total miles of track laid with new rails	1.87

STATE OF MICHIGAN, } ss.
COUNTY OF BAY. }

Chester L. Collins, secretary, and Joseph Turner, treasurer of the Bay City Belt Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

CHESTER L. COLLINS.
JOSEPH TURNER.

Subscribed and sworn to before me this 28th day of March, A. D. 1892.
[L. S.]

JOHN C. ROSS,
Notary Public for Bay Co.

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ANNUAL REPORT

OF THE

JEFFERSON AVENUE RAILWAY COMPANY

For the year ending December 31, 1891.

[Filed June 30, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, GEO. HENDRIE, Detroit.
Vice President, GEO. S. DAVIS, Detroit.
Secretary, CAMERON CURRIE, Detroit.
Auditor, R. J. McKINNEY, Detroit.
Treasurer, STRATHEARN HENDRIE, Detroit.
General Superintendent, A. PAULTER, Detroit.
Attorney, JOHN C. DONNELLY, Detroit.

DIRECTORS.

GEO. HENDRIE, Detroit.
GEO. S. DAVIS, Detroit.
JOHN C. DONNELLY, Detroit.
WM. B. MORAN, Detroit.
SIDNEY T. MILLER, Detroit.
CAMERON CURRIE, Detroit.
STRATHEARN HENDRIE, Detroit.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 8, 1891.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$5,000 00

Fiscal year of company ends December 31.
General offices of the company are located at Detroit.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$1,973 85
Total expenses, including taxes	$2,752 85	
Interest on unfunded debt	1,700 49	
Balance for the year	2,478 99	
Balance forward to next year	2,478 99	

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$100,000 00
Par value of shares	$100 00	
Number of shares issued	50	
Amount paid in on common	$5,000 00	
Total amount paid in, as per books of the company		$5,000 00
Paid in per mile of road owned by company (miles, 5)		$1,000 00

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ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.

For construction	$34,242 15
For equipment	16,180 40
For miscellaneous	4,463 88
Steel rails in stock	22,358 02
Total unfunded debt	$77,244 45

RECAPITULATION.

Total unfunded debt	$77,244 45
Total debt liabilities	$77,244 45

GENERAL BALANCE SHEET.—Dr.

Construction account	$34,242 15	
Equipment account	16,180 40	
Other investments	22,358 02	
		$72,780 57
Cash items:		
Cash		13 65
Bills receivable		341 87
Total		$73,106 59

GENERAL BALANCE SHEET.—Cr.

Unfunded debt:	
Notes payable	$72,780 57
Vouchers and accounts	4,463 88
Total	$77,244 45

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	$38,422 55

ANALYSIS OF EARNINGS.

Total transportation earnings	$1,973 85
Total	$1,973 85
Total earnings from operation of road	1,973 85
Total income from all sources	1,973 85

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$412 90
Total	$412 90

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of Healy motors	$6 00
Repairs of passenger cars	4 10
Total	$10 10

CONDUCTING TRANSPORTATION.

Fuel for Healy motors	$578 08
Water supply	10 00
Oil and waste	89 98
Passenger train service, wages, conductors and engineers	1,064 19
Damages to property and cattle	128 50
Total	$1,870 75

GENERAL EXPENSES.

Contingencies	$458 60
Total	$458 60

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RECAPITULATION OF EXPENSES.

Maintenance of way and buildings	$412 90
Maintenance of motive power and cars	10 10
Conducting transportation	1,064 19
General expenses, including taxes	1,265 16
Total operating expenses and taxes	$2,752 35
Proportion of operating expenses and taxes for Michigan	$2,752 35

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Detroit Water Works to Grosse Pointe, September 7, 1891.
From Baldwin Ave., Detroit, to Detroit Water Works, November 23, 1891.

MAIN LINE.

	Miles.
In Michigan, from Detroit to Grosse Pointe	5.62
Total length completed	5.62
Total length of road belonging to this company	5.62
Total length of road belonging to this company in Michigan	5.62
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	.03
Aggregate length of tracks in Michigan belonging to this company computed as single track	5.65

Gauge of track, 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	250
Total	2	250

Crossings—Railroad and Highway.

Number of crossings of highways at grade in this State	12

Stations.

Number of stations on whole line	6
Same in Michigan	6

Employés.

Number persons regularly employed on all roads operated by company, including officials	11
Same in Michigan	11

Classify your employés as per following list:

Baggagemen	1
Conductors	4
Engineers	4
Shopmen	1
Others	1

ROLLING STOCK.

	Number.	Present estimated value.
Number of Healy motors	6	$12,000 00
Number of passenger cars—4 wheel, including official cars	5	$4,500 00
Number of express and baggage cars	1	200 00
Total	6	$4,700 00

Number of motors equipped with power brakes 6

What patterns of power brakes have you in use and number of motors and cars with each?
Direct steam motors; 6.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

John C. Donnelly and Strathearn Hendrie, two of the directors of the Jefferson Avenue Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

JOHN C. DONNELLY,
STRATHEARN HENDRIE.

Subscribed and sworn to before me this 24th day of June, A. D. 1892.

[L. S.]

CAMERON CURRIE,
Notary Public, Wayne Co., Mich.

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ANNUAL REPORT

OF THE

MANISTEE & GRAND RAPIDS RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed July 7, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN CANFIELD, Manistee, Mich.
Vice President, LOUIS SANDS, Manistee, Mich.
Secretary, T. J. RAMSDELL, Manistee, Mich.
Auditor, E. N. SALLING, Manistee, Mich.
Treasurer, E. G. FILER, Manistee, Mich.
General Superintendent, W. H. HERBERT, Manistee, Mich.
Chief Engineer, E. W. MUENSCHER, Manistee, Mich.

DIRECTORS.

E. G. FILER, Manistee, Mich.
E. N. SALLING, Manistee, Mich.
JAMES DEMPSEY, Manistee, Mich.
JOHN CANFIELD, Manistee, Mich.
R. R. BLACKER, Manistee, Mich.
LOUIS SANDS, Manistee, Mich.
T. J. RAMSDELL, Manistee, Mich.
Terms expire January 20, 1892.

STOCKHOLDERS. STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 11, 1889.
Number of stockholders at date of last election 5
Number of stockholders in Michigan at same date 8
Amount of full paid stock held in Michigan at same date—50 shares $5,000
Date of annual meeting of stockholders—January 20.
Fiscal year of company ends—December 31.
General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$18,862 13
Total expenses, including taxes	$7,110 29	
Net income		$11,751 84

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$1,000,000 00
Par value of shares		$100 00	
Number of shares issued	50		
Amount paid in on common		$5,000 00	
Amount paid in on shares not issued, number	4,450	400,900 00	
Total amount paid in, as per books of the company			$405,900 00

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GENERAL BALANCE SHEET.—Dr.

Construction account	$308,654 50	
Equipment account	54,330 70	
Other investments:		
Real estate (not road bed)	17,000 00	
		$379,885 20
Cash items:		
Cash	$10,907 07	
Due from agents	1,107 57	
		12,014 64
Other assets:		
Materials and supplies (material, ties and fuel)	$19,857 00	
Debit balances from companies and individuals	5,895 00	
		25,752 00
Total		$417,651 84

GENERAL BALANCE SHEET.—Cr.

Capital stock (paid in)	$405,900 00
Profit and loss or income accounts	11,751 84
Total	$417,651 84

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$362,885 20
Average cost per mile of road (not included in sidings, 23 miles)	15,777 61

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$17,459 81	
Other sources	1,402 32	
Total freight department earnings		$18,862 13
Proportion for Michigan	$18,862 13	
Per train mile	2 82	
Per mile of road	800 19	
Total transportation earnings		$18,862 13
Transportation earnings per mile of road	$800 19	
Transportation earnings per train mile	2 82	
Total earnings from operation of road		$18,862 13
Total earnings per mile of road	800 19	
Total earnings per train mile	2 82	
Total income from all sources		$18,862 13
Proportion of income for Michigan		$18,862 13

ANALYSIS OF EXPENSES.

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings Maintenance of motive power and cars Conducting transportation	100.00	$7,110 29
Total operating expenses and taxes	100.00	$7,110 29
Operating expenses and taxes per mile of road		$235 83
Operating expenses and taxes per train mile run, for trains earning revenue, 6,696 miles		1 06
Percentage of expenses to earnings	37	
Net earnings per mile of road		889 77
Net earnings per train mile		1 75

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
Not opened except for construction.

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MAIN LINE.

	Miles.
In Michigan	23.52
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	6.65
Aggregate length of tracks in Michigan belonging to this company, computed as single track, not completed but used for construction	30.17

Gauge of track—4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.
Combination bridges	2
Wooden trestles	1
Total	3

Crossings—Railroad and Highway.

What railroads cross your road either over or under your grade in this State and where?
Under:
Flint & Pere Marquette R. R. at Stronach.

Stations.

Number of stations on whole line	2

Employés.

Number persons regularly employed on all roads operated by company, including officials	25

Classify your employés as per following list:

	Number.
Brakemen	4
Conductors	2
Engineers	2
Firemen	2
Shopmen	2
Yardmen	1
Others	12

REPAIRS AND RENEWALS.

Road Bed and Track.

Number of track sections in Michigan	2
Average lengths of sections (miles)	11.76
Average number of men in each section gang	4
New rails put in track:	
Steel (tons 2,820), miles	30.15
Total miles of track laid with new rails	30.15

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$16,280 00
Total	2	$16,280 00
Number of box freight cars	4	1,940 00
Number of platform cars	92	34,080 70
Number of conductors' way cars	2	1,950 00
Total	98	$37,970 70

Number of locomotives equipped with power brakes	2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Westinghouse—locomotives 2.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
All equipped.

What pattern or patterns have you adopted for use?
Janney.

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MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by freight trains during the year	6,696
Total mileage of trains earning revenue	6,696

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	44,646		
Total tons of freight carried	44,646		
Total freight mileage, or tons carried one mile	803,628		
Average ton haul for local freight		18	
Average ton haul for all freight		18	
Average amount received for each ton haul			$0 39
Average rate per ton per mile received for local freight			02
Average rate per ton per mile, received for all freight			02

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Lumber and forest products	44,646	100
Total tons carried	44,646	100

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

John Canfield, president, and E. N. Salling, auditor, of the Manistee & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to to a true, full, and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief

Signed,

[L. S. OF R. R.]

JOHN CANFIELD, *President.*
E. N. SALLING, *Auditor.*

Subscribed and sworn to before me this 5th day of July, A. D. 1892.

[L. S.]

C. C. YOUNG, *Notary Public.*

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ANNUAL REPORT

OF THE

ST. CLAIR TUNNEL COMPANY,

For the year ending December 31, 1891.

[Filed August 17, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, L. J. SEARGEANT, Montreal, Canada.
Vice President, JOHN BELL, Q. C., Belleville, Canada.
Secretary, Auditor and Treasurer, R. WRIGHT, Montreal, Canada.
General Superintendent, CHARLES STIFF, Hamilton, Canada.
Chief Engineer, JOSEPH HOBSON, Hamilton, Canada.
Attorney, E. W. MEDDAUGH, Detroit, Michigan.

DIRECTORS.

HON. A. VIDAL, Sarnia, Canada.
L. J. SEARGEANT, Montreal, Canada.
E. W. MEDDAUGH, Detroit, Michigan.
CHARLES MACKENZIE, Sarnia, Canada.
E. WRAGGE, Toronto, Canada.
JOHN BELL, Q. C., Belleville, Canada.
W. J. SPICER, Detroit, Michigan.
Terms expire September 28, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—Articles of association of Pt. Huron Railroad Tunnel Co. filed October 13, 1886; articles of consolidation with the St. Clair Tunnel Co. filed November 24, 1886.

Number of stockholders at date of last election	8
Number of stockholders in Michigan at same date	2
Amount of full paid stock held in Michigan at same date—10 % paid up	$15,000

Date of annual meeting of stockholders—Last Wednesday in September.
Fiscal year of company ends June 30.
General offices of the company are located at Montreal, Canada.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$32,310 00
Total expenses, including taxes	$12,109 26	
Net income		$20,200 74
Interest on the funded debt	$20,200 74	
	$20,200 74	$2,200 74

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$700,000 00
Par value of shares	$100 00	
Number of shares issued	7,000	
Amount paid in on common	$70,000 00	
Total amount paid in, as per books of the company		$70,000 00
Paid in per mile of road owned by company, miles 2.19		$31,977 16

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds	5%	July 1, 1940	Montreal, Can	$2,240,000 00
Total funded debt				$2,240,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount outstanding.
For construction For equipment For real estate	Advanced by G. T. R'y Co.; will probably be funded	$352,703 31
Total unfunded debt		$352,703 31

RECAPITULATION.

Total funded debt	$2,240,000 00
Total unfunded debt	352,703 31
Total debt liabilities	$2,592,703 31
Amount of debt liabilities per mile of road	$1,296,351 65
Total amount of stock and debt	2,662,703 31
Stock and debt per mile of road	1,331,351 65

GENERAL BALANCE SHEET.—DR.

Construction account	$2,552,921 50
Equipment account (rolling stock)	60,932 66
Plant and machinery	268,562 04
Land and land damages	112,202 81
Miscellaneous expenses	23,754 30
Total	$3,018,373 31

GENERAL BALANCE SHEET.—CR.

Capital stock (paid up)	$70,000 00	
Funded debt	2,240,000 00	
Dominion of Canada government bonus	355,670 00	
		$2,665,670 00
Unfunded debt		352,703 31
Total		$3,018,373 31

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$3,018,373 31
Average cost per mile of road	1,509,186 65
Proportion of cost for Michigan	1,509,186 65

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Tolls on passenger cars		$2,738 00
Proportion for Michigan	$1,369 00	
Per mile of road	1,369 00	

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FREIGHT EARNINGS.

Tolls on freight cars		$29,572 00
Proportion for Michigan	$14,786 00	
Per mile of road	14,786 00	
Total transportation earnings		$32,310 00
Transportation earnings per mile of road	$16,155 00	
Total earnings from operation of road		$32,310 00
Total earnings per mile of road	16,155 00	
Proportion of taxable earnings for Michigan	16,155 00	
Total taxable earnings per mile of road in Michigan	16,155 00	
Total income from all sources		$32,310 00
Proportion of income for Michigan		$16,155 00

ANALYSIS OF EXPENSES.

CONDUCTING TRANSPORTATION.

Fuel for locomotives, Water supply, Oil and waste, Locomotive service, Wages of despatchers, conductors and brakemen	$12,109 26
Total	$12,109 26

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Conducting transportation	100.00	$12,109 26
Total operating expenses and taxes	100.00	$12,109 26
Operating expenses and taxes per mile of road		$6,054 63
Total proportion of expenses for Michigan		6,054 63
Percentage of expenses to earnings	37.50	
Net earnings per mile of road		10,100 37

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
For the passage of freight trains, October 24, 1891.
For the passage of passenger trains, December 7, 1891.

MAIN LINE.

	Miles.
In Michigan, from center of river to top of approach	1.016
In Canada, from center of river to top of approach	1.180
Total length completed	2.196
Total length of road belonging to this company	2.196
Total length of road belonging to this company in Michigan	1.016
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	.40
Aggregate length of tracks in Michigan belonging to this company computed as single track	1.416

Gauge of track 4 feet 8½ inches.

NOTE.—The St. Clair Tunnel, including approaches and connecting links, commences at a point on the center line of the Great Western division of the Grand Trunk railway, in or near to the town of Sarnia, in the county of Lambton, Ontario, distant 7,960 feet from the edge of the water in the river St. Clair; thence running a little north of west in a curve turning to the right and described with a radius of 11,460 feet for a distance of 536⅝ feet; thence on a tangent to this curve crossing the river for a distance of 14,161½ feet; thence on a curve turning to the right and described with a radius of 11,460 feet for a distance of 383½ feet, more or less, to the terminal point, or point of junction with the Chicago & Grand Trunk railway, in the town of Port Huron, State of Michigan, U. S. A. The total length of the above described line is 15,081½ feet. The length of the Tunnel proper is 6,026 feet, of which 2,316 feet are under the river, 1,994 feet under dry ground beyond the edge of the water on the Canadian side, and 1,716 feet under dry ground beyond the edge of the water on the American side. The length of the open cuttings forming the approaches to the Tunnel is, on the Canadian side 3,083 feet, and on the American side 2,492 feet. The Tunnel is for a single track only and is cylindrical in section with a clear diameter of 19 feet, 10 inches. The Tunnel except the portals is lined with cast iron; the portals are of heavy Ashlar masonry with wing walls stepped on to the slope of the open approach cuttings.

Stations.

Number of stations on whole line	2
Same in Michigan	1

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Employés.

Number persons regularly employed on all roads operated by company, including officials.	46
Same in Michigan	23

Classify your employés as per following list:	Number.
Brakemen	6
Conductors	4
Engineers	10
Firemen	10
Yardmen	6
Others	10

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	4	$49,292 66
Number of dump cars	25	6,750 00
Number of conductors' way cars	6	4,890 00
Total	35	$60,932 66

Number of locomotives equipped with power brakes 4

What patterns of power brakes have you in use, and number of locomotives and cars with each?

Westinghouse.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?

Two miles; this company.

CITY OF MONTREAL, } ss.
DISTRICT OF MONTREAL. }

I, Robert Wright, secretary and treasurer of the St. Clair Tunnel Company, being duly sworn, depose and say that I have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of my knowledge and belief.

Signed,

[SEAL.] R. WRIGHT.

Subscribed and sworn to before me this 9th day of August, A. D. 1892.

J. J. LANNING,
Justice Peace, Montreal.

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DEPOT AND STATION COMPANIES.

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DEPOT AND STATION COMPANIES.

ANNUAL REPORT

OF THE

DETROIT UNION RAILROAD DEPOT & STATION COMPANY,

For the Year ending December 31, 1891.

[Filed April 15, 1892.]

NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President and Treasurer, JAMES F. JOY, Detroit.
Vice President, JAMES McMILLAN, Detroit.
Secretary, JAMES, G. MILLER, Detroit.

ORGANIZATION, ETC.

When chartered, or articles of association filed—About June 1, 1881.
Number of stockholders at date of last election 16
Number of stockholders in Michigan, same date 15
Date of annual meeting of stockholders—On first Wednesday in February.
General offices of the company located at Detroit, Michigan.

CAPITAL STOCK.

By whom subscribed.	Residence.	Number of shares.	Amount.
James F. Joy	Detroit, Michigan	1,666⅔	$166,667 00
C. H. Buhl	" "	1,666⅔	166,667 00
Allan Shelden	" "	1,666⅔	166,667 00
James McMillan	" "	1,250	125,000 00
John S. Newberry	" "	1,250	125,000 00
R. A. Alger	" "	833⅓	83,333 00
M. S. Smith	" "	833⅓	83,333 00
G. W. Balch	" "	833⅓	83,333 00
Total		10,000	$1,000,000 00

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STOCKHOLDERS, DECEMBER 31, 1891.

Names.	Residence.	Amount held.
James F. Joy	Detroit, Michigan	$500,000 00
C. H. Buhl	" "	267,000 00
Caroline Buhl	" "	10,000 00
Theodore D. Buhl	" "	10,000 00
Frank H. Buhl	Sharon, Pennsylvania	10,000 00
G. W. Balch	Detroit, Michigan	19,200 00
James Joy	" "	12,500 00
Richard P. Joy	" "	12,500 00
Frederic Joy	" "	12,500 00
Henry B. Joy	" "	12,500 00
James McMillan	" "	206,200 00
Helen H. Newberry	" "	41,200 00
Helen H. Newberry, executrix	" "	41,200 00
Helen H. Newberry trustee	" "	82,500 00
Truman H. Newberry	" "	41,300 00
Allan Shelden	" "	371,300 00
Total		$1,650,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	When payable.	Amount outstanding.
First mortgage bonds	4%	1938	Jan. and July 1st	$600,000 00
Total funded debt				$600,000 00

UNFUNDED DEBT.

There is no unfunded debt except for leased land, for which a rental is paid on a basis of 5% on property costing or valued at	$8,000 00

RECAPITULATION.

Total funded debt, first mortgage bonds	$600,000 00
Total unfunded debt, account lands used for right of way as above	8,000 00
Amount of stock issued	$1,650,000 00
Total stock and debt	$2,258,000 00

COST.

Of real estate, including right of way	$1,319,963 17
Of depot buildings and fixtures	62,195 00
Of elevators and belongings	303,595 00
Of all other property	584,120 00
Total cost	$2,269,893 17

CASH PAID TO CORPORATION.

On account of original capital stock	$1,000,000 00
On account of increase of capital stock	650,000 00
On first mortgage bonds	600,000 00
Total cash paid	$2,250,000 00

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TRACK.

Length of single main track—miles	3.34
Length of sidings and other tracks—miles	3.50
Total track	6.84

ANALYSIS OF EARNINGS AND EXPENSES.

EARNINGS.

From rentals	$90,892 47
From all other sources	34,314 34
Total earnings	$125,206 81

EXPENSES.

Operating.

Salaries of officers and clerks	$2,000 00
Management and maintenance, including general repairs, etc.	15,505 07
Taxes and insurance, etc.	8,020 62
Miscellaneous	2,048 25
Total	$27,573 94

RECAPITULATION.

Expenses for operating and taxes, insurance, etc.	$27,573 94
Total expenses for the year	$27,573 94

ADDITIONAL INTERROGATORIES.

Description and character of buildings and other property.

	Number.
Passenger houses, brick	1
Freight houses, brick	1
Grain elevator, brick (capacity 1,250,000 bushels)	1
Sheds, freight	1

Water front and docks, about 2,500 feet.

Street crossings, etc.

	Number.
At grade	19
With flagmen	6

Frogs and guard rails, are they blocked as required by law?
Yes.

Contracts and leases.

What railroad companies have rented terminal privileges from you during the year and on what terms?

The Wabash Railroad Co., the Detroit, Lansing & Northern, and the Flint & Pere Marquette Railroad Co's having jointly leased the entire grounds and terminals except the grain elevator, the leases for which were made some years ago.

VERIFICATION.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

Hon. James F. Joy, president, and James G. Miller, secretary, of the Detroit Union Railroad Depot and Station Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company on the 31st day of December, A. D. 1891, to the best of their knowledge and belief.

JAMES F. JOY.
JAMES G. MILLER.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

HENRY B. JOY,
Notary Public.

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ANNUAL REPORT

OF THE

FORT STREET UNION DEPOT COMPANY,

For the year ending December 31, 1891.

[Filed August 5, 1892.]

NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, WILLIAM W. CRAPO, New Bedford, Mass.
Vice President, CHAS. M. HEALD, Grand Rapids, Mich.
Secretary and Ass't Treasurer, HENRY B. JOY, Detroit, Mich.
Treasurer, JAS. F. JOY, Detroit, Mich.

ORGANIZATION, ETC.

When chartered or articles of association filed—August 24, 1889.
Number of stockholders at date of last election 15
Number of stockholders in Michigan at same date 4
Date of annual meeting of stockholders—February 4, 1891.
General offices of company located at Detroit, Mich.

ORIGINAL CAPITAL STOCK SUBSCRIBERS.

By whom subscribed.	Residence.	Number of shares.	Amount.
Wm. C. Van Horne	Montreal	1,000	$100,000 00
O. D. Ashley	New York	1,000	100,000 00
Edm. R. Osler	Toronto	250	25,000 00
Wm. W. Crapo	New Bedford, Mass.	750	75,000 00
R. G. Butler	Detroit	250	25,000 00
Lewis Pierce	Portland, Me.	250	25,000 00
George Coppell	New York City	250	25,000 00
Alfred Stebbins	Boston, Mass.	625	62,500 00
Frank H. Damon	" "	625	62,500 00
Wm. L. Webber	Saginaw, Mich.	10	1,000 00
Total		5,010	$501,000 00

Capital stock	$1,000,000 00
Paid up	501,000 00

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STOCKHOLDERS, DECEMBER 31, 1891.

Names.	Residence.	Amount held.
Jas. F. Joy	Detroit, Mich.	$124,000 00
Henry C. Potter	Saginaw, Mich.	1,000 00
Chas. M. Heald	Grand Rapids, Mich.	1,000 00
Chas. M. Hays	St. Louis, Mo.	1,000 00
Wm. W. Crapo	New Bedford, Mass.	74,000 00
Lewis Pierce	Portland, Me.	25,000 00
George Coppell	New York city	25,000 00
W. L. Webber	Saginaw, Mich.	1,000 00
W. C. Van Horne	Montreal, Canada	97,500 00
Thos. G. Shaughnessy	" "	2,500 00
Frank H. Damon	Boston, Mass.	62,000 00
Alfred Stebbins	" "	62,000 00
Edm. B. Osler	Toronto, Canada	25,000 00
Total		$501,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	When payable.	Amount outstanding.
Bonds	4½%	1941	Jan. and July.	$100,000 00
Total funded debt				$100,000 00

UNFUNDED DEBT.

For construction, real estate, right of way, etc.	$738,414 90
Total unfunded debt	$738,414 90

RECAPITULATION.

Total funded debt	$100,000 00
Total unfunded debt	738,414 90
Total indebtedness	$838,414 90
Stock subscribed and paid up	501,000 00
Total stock and debt	$1,339,414 90

COST.

Of real estate, including right of way (so far as acquired to date)	$946,312 23
Of depot buildings and fixtures (in process of construction)	59,015 51
Of elevated railroad approach and belongings	317,857 52
Of all other items of cost of construction	16,229 64
Total cost	$1,339,414 90

CASH PAID TO CORPORATION.

On account of original capital stock	$501,000 00
On account of increase of capital stock, bills payable, convertible into stock at completion of work	499,000 00
On other accounts other than for income, bills payable and accounts payable	339,414 90
Total cash paid	$1,339,414 90

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ANALYSIS OF EARNINGS AND EXPENSES.

EARNINGS.

The work is not completed and has not been operated.

ADDITIONAL INTERROGATORIES.

Description and character of buildings and other property.

	Number.
Passenger houses, brick and stone (in process of construction)	1

Street Crossings, Etc.

At grade—There will be no grade crossings.
Overhead bridges, number—An elevated railroad approach to depot.

Contracts and leases.

What railroad companies have rented terminal privileges from you during the year and on what terms?

This company's property is leased to, and will be occupied when completed by, the following four railroads, viz.: Wabash, Canadian Pacific, Detroit, Lansing & Northern, and Flint & Pere Marquette, upon the terms that each road shall pay its share of an annual rental sufficient to pay five per cent per annum on the cost of the work.

VERIFICATION.

STATE OF MICHIGAN, } ss.
COUNTY OF WAYNE. }

Wm. W. Crapo, president, and Henry B. Joy, secretary, of the Fort Street Union Depot Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

WM. W. CRAPO,
HENRY B. JOY.

Subscribed and sworn to before me this 16th day of June, A. D. 1892.

ORRY A. HARRINGTON,
Notary Public.

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ORE AND FOREST ROADS.

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ORE AND FOREST ROADS.

ANNUAL REPORT

OF THE

NORTH BRANCH & SAUBLE RIVER RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed February 1, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, C. D. DANAHER, Ludington.
Vice President and Attorney, M. B. DANAHER, Ludington.
Secretary and Treasurer, JAS. E. DANAHER, Ludington.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 8, 1888.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$20,000 00
Date of annual meeting of stockholders—June 11.	
Fiscal year of company ends December 31.	
General offices of the company are located at Ludington, Mich.	

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		19,074 56
Total expenses, including taxes	$4,000 00	
Net income		$5,074 56
Balance applicable to dividends	$5,074 56	
Balance for the year		$5,074 56
Balance (profit and loss) last year		18,327 56
Balance forward to next year		$23,402 12

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$50,000 00
Par value of shares	$100 00	
Amount paid in on common	$20,000 00	
Total amount paid in, as per books of the company		$20,000 00
Paid in per mile of road owned by company—10 miles		$2,000 00

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ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.

For construction For equipment	$7,334 70
Total unfunded debt	$7,334 70

RECAPITULATION.

Total unfunded debt	$7,334 70
Total debt liabilities	$7,334 70
Amount of debt liabilities per mile of road (10 miles)	733 47
Total amount of stock and debt	27,334 70
Stock and debt per mile of road (10 miles)	2,733 47

GENERAL BALANCE SHEET.—Dr.

Construction account Equipment account	$50,735 82
Total	$50,735 82

GENERAL BALANCE SHEET.—Cr.

Capital stock	$20,000 00
Other liabilities	7,333 70
Profit and loss or income accounts	23,402 12
Total	$50,735 82

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$50,735 82
Average cost per mile of road (not included in sidings, 10 miles)	5,073 58

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Local traffic		$9,074 56
Proportion for Michigan	$9,074 56	
Per mile of road	907 46	
Total transportation earnings		$9,074 56
Transportation earnings per mile of road		$907 46
Total earnings from operation of road		9,074 56
Total earnings per mile of road		907 46
Proportion of taxable earnings for Michigan		9,074 56
Total taxable earnings per mile of road in Michigan		907 46
Total income from all sources		9,074 56
Proportion of income for Michigan		9,074 56

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings Maintenance of motive power and cars Conducting transportation General expenses, including taxes	100	$4,000 00
Total operating expenses and taxes	100	$4,000 00
Operating expenses and taxes per mile of road		$400 00
Proportion of operating expenses and taxes for Michigan		4,000 00
Percentage of expenses to earnings	45	
Net earnings per mile of road		507 45

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From section 21, town 18 north, range 15, to section 8, 19-15, August, 1888.

MAIN LINE.

	Miles
In Michigan, from section 21 in 18-15 to section 8 in 19-15	10.00
Total length completed	10.00
Aggregate length of tracks in Michigan belonging to this company computed as single track	10.00

Gauge of track 3 feet.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
F. & P. M. R. R. at Manistee Junction.

Number of crossings of highways at grade in this State	3

Employés.

Number persons regularly employed on all roads operated by company, including officials	9
Same in Michigan	9

Classify your employés as per following list:

	Number.
Baggagemen	1
Engineers	1
Firemen	1
Laborers	4
Others	2

REPAIRS AND RENEWALS.

Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	10

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender	2	$7,000 00
Total	2	$7,000 00
Number of platform cars	50	7,000 00
Total	52	$14,000 00

Freight Forwarded at Michigan Stations.

	Forwarded, feet.
Lumber and forest products—logs	18,149,120
Total forwarded	18,149,120

Tonnage of Articles Transported—Entire Road.

	Feet.	Per cent.
Lumber and forest products—logs	18,149,120	100.00
Total carried	18,149,120	100.00

STATE OF MICHIGAN, } ss.
COUNTY OF MASON. }

C. D. Danaher, president, and J. E. Danaher, secretary, of the North Branch & Sauble River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

C. D. DANAHER.
JAS. E. DANAHER.

Subscribed and sworn to before me this 29th day of January, A. D. 1892.

J. D. HARRINGTON,
Notary Public, Mason Co.

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ANNUAL REPORT

OF THE

CRAWFORD & MANISTEE RIVER RAILWAY COMPANY,

For the year ending December 31, 1891.

[Filed February 4, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ANTOINE E. CARTIER, Ludington, Mich.
Vice President, JAMES DEMPSEY, Manistee, Mich.
Secretary and Auditor, WILLIAM WENTE, Manistee, Mich.
Treasurer, LAWRENCE T. DEMPSEY, Manistee, Mich.
General Manager and Superintendent, NICOLAS DOWEN, Fletcher, Mich.

DIRECTORS.

ALLEN MCKEE, Manistee, Mich.
Term expires January 1, 1893.
A. E. CARTIER, Ludington, Mich.
Term expires January 1, 1894.
JAMES DEMPSEY, Manistee, Mich.
Term expires January 1, 1895.
L. T. DEMPSEY, Manistee, Mich.
Term expires January 1, 1896.
WILLIAM WENTE, Manistee, Mich.
Term expires January 1, 1897.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—September 28, 1885.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	$50,000 00
Date of annual meeting of stockholders—First Tuesday in December.	
Fiscal year of company ends December 31.	
General offices of the company are located at Manistee, Mich.	

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$13,183 96
Total expenses, including taxes	$13,061 02	
Net income		$122 94
Balance applicable to dividends	$122 94	
Balance for the year		$122 94
Balance (profit and loss) last year		308 11
Balance forward to next year		$431 05

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$50,000 00
Par value of shares	$100 00	
Amount paid in on common	$50,000 00	
Total amount paid in as per books of the company		$50,000 00
Paid in per mile of road owned by company (miles 10)		$5,000 00

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

None.

RECAPITULATION.

Total amount of stock	$50,000 00
Stock per mile of road	5,000 00

GENERAL BALANCE SHEET.—Dr.

Construction account	$45,566 58	
Equipment account	11,618 18	
		$57,184 76
Debit balances from companies and individuals		431 05
Total		$57,615 81

GENERAL BALANCE SHEET.—Cr.

Capital stock	$50,000 00
Profit and loss or income accounts	7,615 81
Total	$57,615 61

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$57,184 76
Average cost per mile of road, not included in sidings (10 miles)	5,718 48
Proportion of cost for Michigan	57,184 76

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Total traffic	$13,183 96	
Total freight department earnings		$13,183 96
Proportion for Michigan	$13,183 96	
Per train mile	1 01.4	
Per mile of road	1,318 39	
Total transportation earnings		$13,183 96
Transportation earnings per mile of road	$1,318 39	
Transportation earnings per train mile	1 01.4	
Total earnings from operation of road		$13,183 96
Total earnings per mile of road	1,318 39	
Total earnings per train mile	1 01.4	
Proportion of taxable earnings for Michigan		13,183 96
Total taxable earnings per mile of road in Michigan	1,318 39	
Total income from all sources		$13,183 96
Proportion of income for Michigan		$13,183 96

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ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$1,435 90
Renewals of rails	5,617 86
Renewals of ties	
Total	$7,053 76

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$767 95
Repairs of freight cars	695 76
Total	$1,463 71

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$1,232 75
Water supply	355 00
Oil and waste	
Freight train service	2,366 56
Total	$3,954 31

GENERAL EXPENSES.

Salaries of clerks in general offices	$350 00
Taxes	239 24
Total	$589 24

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	54.01	$7,053 76
Maintenance of motive power and cars	11.21	1,463 71
Conducting transportation	30.27	3,954 31
General expenses, including taxes	4.51	589 24
Total operating expenses and taxes	100.00	$13,061 02

Operating expenses and taxes per mile of road	$1,306 10
Operating expenses and taxes per train mile run, for trains earning revenue (13,000 miles)	1 00.6
Proportion of operating expenses and taxes for Michigan	13,061 02
Percentage of expenses to earnings	99.07
Net earnings per mile of road	12 29
Net earnings per train mile	.00945

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
October 11, 1885.

MAIN LINE.

	Miles.
In Michigan, from Manistee river to forest terminus	10.00
Total length completed	10.00

BRANCHES.

Total length of branches owned by company	3.00
Total length of branches owned by company in Michigan	3.00
Total length of road belonging to this company	13.00
Total length of road belonging to this company in Michigan	13.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	13.00

Gauge of track, 3 feet.

Crossings—Railroad and Highway.

Number of crossings of highways at grade in this State	3
Number of crossings of highways over or under railroad—over 3, under 0	3

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Stations.

Number of stations on whole line	2
Same in Michigan	2

Employés.

Number persons regularly employed on all roads operated by company, including officials	31
Same in Michigan	31

Classify your employés as per following list:

	Number.
Brakemen	1
Engineers	1
Firemen	1
Laborers	26
Others	2

REPAIRS AND RENEWALS.

Road Bed and Track.

Number of track sections in Michigan	1
Average number of men in each section gang	6
Number of new ties put in whole line during the year	11,000
Number of new ties put in track in Michigan	11,000
Average number of new ties per mile of road	1,100

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender	1	$4,000 00
Total	1	$4,000 00
Number of log cars	34	5,100 00
Other cars as follows:		
Hand cars	3	50 00
Total	38	$5,150 00

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Hand power.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by freight trains during the year	13,000

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Lumber and forest products—17,578,622 feet logs	41,309

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Lumber and forest products—logs	41,309	100.00

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

James Dempsey, vice president, and Wm. Wente, secretary, of the Crawford & Manistee River Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JAMES DEMPSEY.
WM. WENTE.

Subscribed and sworn to before me this 1st day of February, A. D. 1892.

J. W. DEMPSEY,
Notary Public, Manistee Co.

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ANNUAL REPORT

OF THE

HECLA & TORCH LAKE RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed February 12, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALEX. AGASSIZ, Boston, Mass.
Secretary and Treasurer, LA ROY S. GOVE, Calumet, Mich.
General Superintendent, WILLIAM A. CHILDS, Calumet, Mich.
Chief Engineer, PRESTON C. F. WEST, Calumet, Mich.

DIRECTORS.

ALEX. AGASSIZ, Cambridge, Mass.
L. A. SHAW, West Roxbury, Mass.
S. B. WHITING, Cambridge, Mass.
JOHN DUNCAN, Calumet, Mich.
WILL A. CHILDS, Calumet, Mich.
Terms expire June, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—1867.

Number of stockholders at date of last election	6
Number of stockholders in Michigan at same date	2
Amount of full paid stock held in Michigan at same date	$200 00

Date of annual meeting of stockholders—third Wednesday in June.
Fiscal year of company ends April 30.
General offices of the company are located at Calumet, Mich.

REMARKS.

The road is operated and wholly owned by the Calumet & Hecla Mining Co., which pays any deficit which may occur for the privilege of having its rock transported free.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$100,427 76
Total expenses, including taxes	$100,427 76	

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$150,000 00
Par value of shares	$100 00	
Number of shares issued	1,000	
Total amount paid in as per books of the company		$100,000 00
Paid in per mile of road owned by company		$13,333 33

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For construction	$412,451 32
Total unfunded debt	$412,451 32

RECAPITULATION.

Total unfunded debt	$412,451 32
Total debt liabilities	412,451 32
Amount of debt liabilities per mile of road (7.5 miles)	55,020 17
Total amount of stock and debt	512,451 32
Stock and debt per mile of road (7.5 miles)	68,326 84

GENERAL BALANCE SHEET.—Dr.

Construction account	$412,451 32
Total	$412,451 32

GENERAL BALANCE SHEET.—Cr.

Capital stock	$100,000 00
Unfunded debt	412,451 32
Total	$512,451 32

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$512,451 32
Average cost per mile of road (not included in sidings, (7.5 miles)	68,326 84
Proportion of cost for Michigan	512,451 32

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:	
Total	$100,427 76
Proportion for Michigan	100,427 76
Per train mile	2 00
Per mile of road	13,390 37
Total transportation earnings	100,427 76
Total income from all sources	100,427 76
Proportion of income for Michigan	100,427 76

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$18,853 59
Renewals of ties	800 00
Signal power	1,640 85
Total	$21,293 44

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$13,969 52
Locomotive and freight train service	48,808 88
Freight train supplies	13,688 72
Total	$76,467 12

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GENERAL EXPENSES.

Taxes	$2,667 20
Total	$2,667 20

RECAPITULATION OF EXPENSES.

Maintenance of way and buildings	$21,293 44
Conducting transportation	76,467 12
General expenses, including taxes	2,667 20
Total operating expenses and taxes	$100,427 76
Proportion of operating expenses for Michigan	$100,427 76

DESCRIPTION OF ROAD.

MAIN LINE.

	Miles.
In Michigan, from Calumet to Lake Linden	6

BRANCHES.

From Hecla to South Hecla	1
From Hecla to Calumet	.5
Total length of branches owned by company	1.5
Total length of branches owned by company in Michigan	7.5
Total length of road belonging to this company	7.5
Total length of road belonging to this company in Michigan	7.5
Aggregate length of tracks in Michigan belonging to this company computed as single track	7.5

Gauge of track, 4 feet 1 inch.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	5	1,500
Total	5	1,500

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Mineral Range Railroad at Calumet.
Hancock and Calumet Railroad at Calumet.

At what crossings are interlocking and derailing switches in operation.
Mineral Range Railroad.

What pattern or patterns have you adopted?
Union Switch & Signal Co.

Number of crossings of highways at grade in this State	9
Number of crossings of highways at grade in this State at which there are gates or flagmen	2
Number of crossings of highways over or under railroad, under	2

Employés.

Number persons regularly employed on all roads operated by company, including officials	121
Same in Michigan	121

Classify your employés as per following list:

	Number.
Brakemen	14
Conductors	4
Engineers	6
Firemen	6
Laborers	69
Shopmen	8
Yardmen	8
Others	6
Total	121

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you	15

Road Bed and Track.

Number of track sections in Michigan	3
Average number of men in each section gang	6
Number of new ties put in whole line during the year	4,000
Number of new ties put put in track in Michigan	4,000
Total miles of track laid with new rails	.2

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	8	$72,200 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	1	7,600 00
Total	9	$79,800 00
Number of passenger cars, 8-wheel, including official cars	1	475 00
Number of box freight cars	4	950 00
Number of coal cars	30	7,500 00
Number of platform cars	43	9,675 00
Number of ore cars	290	66,700 00
Number of conductors' way cars	3	665 00
Other cars as follows	4	950 00
Total	375	$86,915 00

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No. Cars always had safety couplers.

What pattern or patterns have you adopted for use?
Child's. Cars couple after deadwoods meet. No danger to train men in making or unmaking trains.

MILEAGE, TRAFFIC, ETC.

Train mileage.

Miles run by freight trains during the year	48,465
Total mileage of trains earning revenue	48,465

Freight Traffic.

Number of tons of local freight carried	1,132,875
Total tons of freight carried	1,132,875
Total freight mileage, or tons carried one mile	8,496,562

Tonnage of Articles Transported—Entire Road.

	Tons.
Grain	500
Lumber and forest products	25,000
Coal	60,000
Plaster, lime and cement	3,000
Copper mineral	46,066
Rock	960,309
Stone, brick and sand	12,000
Merchandise and other articles not enumerated above	26,000
Total tons carried	1,132,875

STATE OF MICHIGAN, } ss.
COUNTY OF HOUGHTON. }

La Roy S. Gove, secretary and treasurer, of the Hecla & Torch Lake Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] LA ROY S. GOVE, *Secretary and Treasurer.*

Subscribed and sworn to before me this 10th day of February, A. D. 1892.

[L. S.] L. W. KILLMAR, *Notary Public.*

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ANNUAL REPORT

OF THE

BEAR LAKE & EASTERN RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed February 23, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, GEO. W. HOPKINS, Bear Lake, Mich.
Secretary, DAVID H. HOPKINS, Bear Lake, Mich.
Auditor, GEO. W. HOPKINS, Bear Lake, Mich.
Treasurer, ELLA S. HOPKINS, Bear Lake, Mich.
General Superintendent, CYRUS G. WAREHAM, Bear Lake, Mich.
Cashier and General Freight Agent, AGNES HOPKINS, Bear Lake, Mich.

DIRECTORS.

GEO. W. HOPKINS, Bear Lake, Mich.
DAVID H. HOPKINS, Dallas, Ark.
MILTON J. HOPKINS, Dallas, Ark.
MINNIE M. HOPKINS, Dallas, Ark.
ELLA S. HOPKINS, Bear Lake, Mich.
MATTIE E. COLLINS, Bear Lake, Mich.
Terms expire April 1.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—January 14, 1882.

Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	7
Amount of part paid stock held in Michigan at same date	$117,600 00

Date of annual meeting of stockholders—April 1.
Fiscal year of company ends December 31.
General offices of the company are located at Bear Lake, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$11,559 42
Total expenses, including taxes	$8,255 72	
Net income		$3,303 70
Interest on funded debt	$519 49	
Balance applicable to dividends		$2,784 21
Balance for the year		$2,784 21
Balance (profit and loss) last year		6,303 32
Balance forward to next year		$9,087 53

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ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$250,000 00
Par value of shares	$100 00	
Number of shares issued	1,046	
Amount paid in on common	$104,664 00	
Total amount paid in as per books of the company		$104,664 00
Paid in per mile of road owned by company (18 miles)		$5,814 66

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Mortgage bond	8%	Sept. 3, 1890	Grand Rapids	$3,589 94
Total funded debt				$3,589 94

UNFUNDED DEBT.

For current balances (to be paid from net earnings)	$4,871 37

RECAPITULATION.

Total funded debt	$3,589 94
Total unfunded debt	4,871 37
Total debt liabilities	$8,461 31
Amount of debt liabilities per mile of road (18 miles)	$464 52
Total amount of stock and debt	113,125 31
Stock and debt per mile of road (18 miles)	6,284 74

GENERAL BALANCE SHEET.—Dr.

Construction account	$93,744 74
Equipment account	30,215 72
Total	$123,960 46

GENERAL BALANCE SHEET.—Cr.

Capital stock	$104,664 00
Funded debt	3,589 94
Notes payable	1,747 62
Other liabilities	4,871 37
Profit and loss or income accounts	9,087 53
Total	$123,960 46

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$123,960 46
Average cost per mile of road (not included in sidings, 18.00 miles)	6,886 69
Proportion of cost for Michigan	123,960 46

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Total passenger fares	$56 29	
Total passenger department earnings		$56 29

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FREIGHT EARNINGS.

Main line and branches:		
Through traffic	$11,508 13	
Total freight department earnings		$11,508 13
Total transportation earnings		$11,559 42
Transportation earnings per mile of road	$642 19	
Transportation earnings per train mile	1 59.5	
Total earnings from operation of road		$11,559 42
Total earnings per mile of road	$642 19	
Total earnings per train mile	1 59.5	
Proportion of taxable earnings for Michigan		$11,559 42
Total taxable earnings per mile of road in Michigan	642 19	
Total income from all sources		$11,559 42
Proportion of income for Michigan		$11,559 42

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$2,296 22
Repairs to fences, road crossings and signs	90 28
Repairs of buildings	15 00
Total	$2,401 50

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$1,141 61
Repairs of freight cars	1,506 81
Total	$2,648 42

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$455 00
Oil and waste	156 18
Freight train service	2,098 80
Freight train supplies	18 57
Damages to property and cattle	40 00
Agents and station service	190 00
Station supplies	56 00
Total	$3,014 55

GENERAL EXPENSES.

Contingencies	$191 25
Total	$191 25

RECAPITULATION OF EXPENSES.

	Per cent of expenses	
Maintenance of way and buildings	100	$2,401 50
Maintenance of motive power and cars		3,259 60
Conducting transportation		3,275 69
General expenses, including taxes		191 25
Total operating expenses	100	$9,128 04

Operating expenses and taxes per mile of road	$507 11
Operating expenses and taxes per train mile run, for trains earning revenue (7,250 miles)	1 26
Proportion of operating expenses and taxes for Michigan	9,128 04
Percentage of expenses to earnings	78
Net earnings per mile of road	135 08
Net earnings per train mile	33.5

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DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Pierport, Mich., to Maple Grove, Mich., November 1, 1887.

MAIN LINE.

	Miles.
In Michigan, from Pierport to Maple Grove	18.00
Total length completed	18.00
Total length of road belonging to this company	18.00
Total length of road belonging to company in Michigan	18.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	18.00

Gauge of track 3 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	3	96
Wooden trestles	2	700
Total	5	796

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

Number of crossings of highways at grade in this State	13
Number of crossings of highways over or under railroad (over, 12; under 1)	13

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1881?
Yes.

Stations.

Number of stations on whole line	5
Same in Michigan	5

Employés.

Number persons regularly employed on all roads operated by company, including officials	11
Same in Michigan	11

Classify your employés as per following list:

	Number.
Engineers	2
Firemen	2
Laborers	4
Others	3

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	11
Give the number of miles required to complete fence both sides of your track in Michigan,	26

Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	18
Average number of men in each section gang	4

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3	$9,500 00
Total	3	$9,500 00
Number of passenger cars—8-wheel, including official cars	1	1,000 00
Number of platform cars	57	16,715 72
Other cars	14	3,000 00
Total	72	$30,215 72

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Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

What pattern or patterns have you adopted for use?
Link and pin.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Total mileage of trains earning revenue	7,250

Freight Traffic.

	Tons.
Total tons of freight carried	21,312

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Lumber and forest products	21,062
Merchandise and other articles not enumerated above	250
Total forwarded	21,312

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Lumber and forest products	21,062	------
Merchandise and other articles not enumerated above	250	------
Total tons carried	21,312	100.00

ADDITIONAL QUESTIONS.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Six miles; poles belong to Bear Lake & Eastern Railroad, wire to the Western Union Telegraph Co.

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

George W. Hopkins, president, and Ella S. Hopkins, treasurer, of the Bear Lake & Eastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

GEO. W. HOPKINS.
ELLA S. HOPKINS.

Subscribed and sworn to before me this 17th day of February, A. D. 1892.
[L. S.]

JOHN F. MERRILL,
Notary Public.

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ANNUAL REPORT

OF THE

MANISTEE & LUTHER RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 21, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, R. G. PETERS, Eastlake, Mich.
Secretary, Treasurer and Ass't Gen'l Mgr., H. W. CAREY, Eastlake, Mich.
Attorney, A. J. DOVEL, Manistee, Mich.

DIRECTORS.

R. G. PETERS, Eastlake, Mich.
H. W. CAREY, Eastlake, Mich.
G. M. BURR, Manistee, Mich.
A. J. DOVEL, Manistee, Mich.
Terms expire April 5, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—March 26, 1886.

Number of stockholders at date of last electon	7
Number of stockholders in Michigan at same date	7
Amount of full paid stock held in Michigan at same date	All.

Date of annual meeting of stockholders—First Tuesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Eastlake Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$105,193 96
Total expenses, including taxes	$76,738 90	
Net income		$28,455 06
Interest on unfunded debt	$3,432 71	
Rental of buildings, tracks, etc.	2,000 00	
Balance for the year		$23,022 35
Balance (profit and loss) last year		1,817 80
Balance forward to next year		$24,840 15

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$400,000 00
Par value of shares	$100 00	
Number of shares issued	4,000	
Amount paid in on common	$300,000 00	
Total amount paid in, as per books of the company		$300,000 00
Paid in per mile of road owned by company—miles 64		$4,687 50

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

For construction For equipment For real estate		$37,750 25

RECAPITULATION.

Total unfunded debt	$37,750 25
Total debt liabilities	37,750 25
Amount of debt liabilities per mile of road [64 miles]	589 84
Total amount of stock and debt	$37,750 25
Stock and debt per mile of road [64 miles]	5,277 35

GENERAL BALANCE SHEET.—Dr.

Construction account	$284,150 66	
Equipment account	70,353 85	
		$354,504 51
Cash items:		
Cash		180 54
Other assets:		
Materials and supplies		6,167 77
Debit balances from companies and individuals		1,737 58
Total		$362,590 40

GENERAL BALANCE SHEET.—Cr.

Capital stock	$300,000 00
Unfunded debt:	
Interest unpaid	37,750 25
Profit and loss or income accounts	24,840 15
Total	$362,590 40

COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Original cost of road and equipment	$354,504 51
Amount expended account of construction	284,150 66
Amount expended account of equipment	70,353 85
Total cost to date of report	354,504 51
Average cost per mile of road (not including sidings, 64 miles)	5,539 13
Proportion of cost for Michigan	All.

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Main line:	
Extensions and new sidings	$299 02
Total charges to property account	$299 02

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Main line and branches:		
Local fares	$471 06	
Total fares	$471 06	
Total passenger department earnings		$471 06

FREIGHT EARNINGS.

Main line and branches:		
Local traffic	$104,722 90	
Total traffic	$104,722 90	
Total freight department earnings		$104,722 90
Proportion for Michigan	All.	
Total transportation earnings		$105,193 96
Transportation earnings per mile of road	$1,643 65	
Total earnings from operation of road		$105,193 96

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Total earnings per mile of road	$1,643 65	
Proportion of taxable earnings for Michigan	All.	
Total taxable earnings per mile of road in Michigan	1,643 65	
Total income from all sources		$105,193 96
Proportion of income for Michigan		$105,193 96

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$6,809 91
Renewals of ties	919 68
Repairs of bridges, including culverts and cattle guards	8 85
Repairs of fences, road crossings and signs	69 75
Repairs of buildings	95 24
Sundries	622 50
Total	$8,525 93

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$12,024 19
Repairs of freight cars	7,509 61
Total	$19,533 80

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$13,512 75
Water supply	220 12
Oil and waste	1,627 35
Locomotive service	5,742 36
Freight train service	4,656 67
Freight train supplies	304 07
Telegraph expenses, maintenance and operating	841 43
Damage and loss of freight and baggage	12 00
Damages to property and cattle	186 40
Agents and station service	3,434 10
Total	$30,487 33

GENERAL EXPENSES.

Salaries of clerks in general offices	$2,000 00
Insurance	55 56
Stationery and printing	96 60
Contingencies	13,280 39
Taxes	2,759 29
Total	$18,191 84

RECAPITULATION OF EXPENSES.

	Per cent of Expenses.	
Maintenance of way and buildings	------	$8,525 93
Maintenance of motive power and cars	------	19,533 80
Conducting transportation	------	30,487 33
General expenses, including taxes	------	18,191 84
Total operating expenses and taxes	100.00	$76,738 90

Operating expenses and taxes per mile of road		$1,199 03
Proportion of operating expenses and taxes for Michigan		All.
Total proportion of expenses for Michigan		76,738 90
Percentage of expenses to earnings	.729	
Net earnings per mile of road		444 62

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Eastlake, Mich., to south line section 26, 19-12, June, 1886.
From Eastlake, Mich., to Clement, section 26, 21-14, June, 1886.

MAIN LINE.

	Miles.
In Michigan from Eastlake to south line 26, 19-12	37.50
Total length completed	37.50

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BRANCHES.

Total length of branches owned by company	26.50
Total length of road belonging to this company	64.00
Total length of road belonging to this company in Michigan	64.00

Gauge of track, 3 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	3	150
Wooden trestles	1	60
Total	4	210

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State and at what locality?
F. & P. M. R. R. at lot 1, section 7, 20-16.
G. R. & I. R. R. at section 15, 19-12.

What railroads cross your road either over or under your grade in this State and where?
None.

At what crossings are interlocking and derailing switches in operation?
F. & P. M.
C. & W. M.

STATIONS.

Number of stations on whole line	3
Same in Michigan	3

EMPLOYES.

Number persons regularly employed on all roads operated by company, including officials	106
Same in Michigan	106

Classify your employés as per following list:

	Number.
Brakemen	13
Conductors	3
Engineers	7
Firemen	7
Laborers	50
Shopmen	5
Yardmen	3
Others	18

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?
None.

Road Bed and Track.

Number of track sections in Michigan	5
Average length of sections (miles)	10
Average number of men in each section gang	4
Number of new ties put in whole line during the year	3,798
Number of new ties put in track in Michigan	3,798
Average number of new ties per mile of road	2,700

Bridges and Culverts.

New bridges built during the year:
None.

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	3	
Number of locomotives of 10 to 20 tons weight, exclusive of tender	3	
Total	6	
Number of passenger cars— 8-wheel, including official cars	1	
Number of box freight cars	2	
Number of platform cars	15	
Number of conductors' way cars	3	
Other cars	236	
Total	257	

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Number of locomotives equipped with power brakes..... None.
Number of passenger-train cars equipped with power brakes..... None.
Number of freight cars equipped with power brakes..... Ratchet brake.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Regular logging car couplings.

MILEAGE, TRAFFIC, ETC.

Passenger Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of local passengers carried	628		
Total number of passengers carried	628		
Total passenger mileage, or passengers carried one mile	15,700		
Average distance traveled by each passenger		25.00	
Average amount received from each passenger			$0 75
Average rate of fare per mile for local passengers			03

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	83,778		
Total tons of freight carried	83,778		
Average amount received for each ton haul			$1 25

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Lumber and forest products	82,278
Merchandise and other articles not enumerated above	1,500
Total forwarded	83,778

ADDITIONAL QUESTIONS.

Telegraph.

Number of miles of telegraph on your road and to whom does it belong?
Telephone; 31 miles.

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

R. G. Peters, president, and H. W. Carey, secretary, of the Manistee & Luther Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to to a true, full, and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief

Signed,

[L. S. OF R. R.]

R. G. PETERS.
H. W. CAREY.

Subscribed and sworn to before me this 14th day of March, A. D. 1892.
[L. S.]

RAYMOND B. GILLETTE,
Notary Public.

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ANNUAL REPORT

OF THE

LAKE COUNTY RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed March 23, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Auditor, JOHN S. WOODRUFF, Ludington, Mich.
General Manager, THOMAS R. LYON, Ludington, Mich.
General Superintendent, EDWIN GOODRICH, Branch, Mich.
Chief Engineer, R. E. McEWEN, Branch, Mich.

DIRECTORS.

THOMAS R. LYON, Ludington, Mich.
JOHN B. LYON, Chicago, Ills. (12 Sherman-st.)
JOHN S. WOODRUFF, Ludington, Mich.
LUCIUS K. BAKER, Ludington, Mich.
M. A. NEILAN, San Barnardino, Cal.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—September 8, 1880.
Number of stockholders at date of last election (original subscribers) 7
Number of stockholders in Michigan at same date 6
Amount of full paid stock held in Michigan at same date—No certificates of stock issued.
Date of annual meeting of stockholders—September 1.
General offices of the company are located at Ludington, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$14,421 95
Total expenses, including taxes	$15,497 95	
Net deficit	$1,076 00	
Balance for the year	$1,076 00	
Balance (profit and loss) last year		$12,200 00
Balance forward to next year	11,124 00	
	$12,200 00	$12,200 00

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$300,000 00
Par value of shares	$100 00	
Amount paid in on common	$60,000 00	
Amount paid in on shares not issued		$60,000 00
Paid in per mile of road owned by company—miles 11		$5,454 54

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GENERAL BALANCE SHEET.—Dr.

Construction account	$72,050 00
Total	$72,050 00

GENERAL BALANCE SHEET.—Cr.

Capital stock	$60.000 00
Due employés	926 00
Profit and loss or income accounts	11,124 00
Total	$72,050 00

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$72,050 00
Average cost per mile of road (not included in sidings, 11 miles)	6,550 00

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Through traffic	$14,421 95	
Total freight department earnings		$14,421 95
Total income from all sources		$14,421 95

ANALYSIS OF EXPENSES.

Maintenance of way and buildings	$2,105 72
Maintenance of motive power and cars	1,722 63
Conducting transportation	7,896 45
General expenses	3,773 15

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	100.00	$2,105 72
Maintenance of motive power and cars		1,722 63
Conducting transportation		7,896 45
General expenses, including taxes		3,773 15
Total operating expenses and taxes	100.00	$15,497 95

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From point in Elk township, Lake county, to Pere Marquette river, August 20, 1880.

MAIN LINE.

	Miles.
In Michigan	11.00
Total length completed	11.00
Total length of road belonging to this company	11.00
Total length of road belonging to this company in Michigan	11.00

Gauge of track 4 feet 8½ inches.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	2	650
Total	2	650

Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Flint & Pere Marquette R. R. near Branch station.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

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Employés.

Number persons regularly employed on all roads operated by company, including officials	21
Same in Michigan	21

Classify your employés as per following list:

	Number.
Brakemen	3
Engineers	3
Firemen	3
Wipers	2
Shopmen	2
Sectionmen	6
Superintendent	1
Bookkeeper	1

REPAIRS AND RENEWALS.

Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	11
Average number of men in each section gang	6

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	3	$12,000 00
Total	3	$12,000 00
Number of logging cars	40	4,000 00
Total	43	$16,000 00

MILEAGE, TRAFFIC, ETC.

Tonnage of Articles Transported.—Entire Road.

	Tons.	Per cent.
Lumber and forest products—logs	57,687	100.00
Total tons carried	57,687	100.00

STATE OF MICHIGAN, } ss.
COUNTY OF MASON. }

John S. Woodruff and Lucius K. Baker, two of the directors of the Lake County Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.] JNO. S. WOODRUFF.
L. K. BAKER.

Subscribed and sworn to before me this 22d day of March, A. D. 1892.

[L. S.] WILLIAM FOY,
Notary Public, Mason Co., Mich.

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ANNUAL REPORT

OF THE

GRASS LAKE & MANISTEE RIVER RAILROAD COMPANY

For the year ending December 31, 1891.

[Filed March 30, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. R. BLACKER, Manistee, Mich.
Vice President, PATRICK NOUD, Manistee, Mich.
Secretary, M. FOY, JR., Manistee, Mich.
Treasurer, WILLIAM WENTE, Manistee, Mich.
General Manager, PATRICK NOUD, Manistee, Mich.

DIRECTORS.

GUS KITZINGER, Manistee, Mich.
R. R. BLACKER, Manistee, Mich.
PATRICK NOUD, Manistee, Mich.
M. FOY, JR., Manistee, Mich.
WILLIAM WENTE, Manistee, Mich.
Terms expire December 31, 1891.

STOCKHOLDERS. STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—February 4, 1886.

Number of stockholders at date of last election	8
Number of stockholders in Michigan at same date	8
Amount of full paid stock held in Michigan at same date	$40,000 00

Date of annual meeting of stockholders—December 31.
Fiscal year of company ends December 31.
General offices of the company are located at Manistee, Mich.

REMARKS.

This railroad was discontinued September 17, 1891, rail picked up and road bed abandoned.

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$3,120 26
Total expenses, including taxes	$3,120 26	
Balance (profit and loss) last year	$2,091 03	
Balance forward to next year		$2,091 03
	$2,091 03	$2,091 03

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$52,000 00
Par value of shares		$100 00	
Number of shares issued	350		
Amount paid in on common			$35,000 00
Amount paid in on shares not issued—number	50		5,000 00

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Total amount paid in, as per books of the company	$40,000 00
Paid in per mile of road owned by company, miles 12	$3,333 33

ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

None.

GENERAL BALANCE SHEET.—Dr.

Construction account	$33,000 00	
Equipment account	8,000 00	
		$40,000 00
Cash items:		
Cash		2,091 03
Total		$42,091 03

GENERAL BALANCE SHEET.—Cr.

Capital stock	$40,000 00
Profit and loss or income accounts	2,091 03
Total	$42,091 03

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and equipment	$40,000 00
Average cost per mile of road (not included in sidings—12 miles)	3,333 33
Proportion of cost for Michigan	40,000 00

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

None.

ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Through traffic	$8,120 26	
Total traffic	$8,120 26	
Total freight department earnings		$8,120 26
Proportion for Michigan	$8,120 26	
Per train mile	58⅛	
Per mile of road	676 69	
Total transportation earnings		$8,120 26
Transportation earnings per mile of road	$676 69	
Transportation earnings per train mile	58⅛	
Total earnings from operation of road		$8,120 26
Total earnings per mile of road	$676 69	
Total earnings per train mile	58⅛	
Proportion of taxable earnings for Michigan		$8,120 26
Total taxable earnings per mile of road in Michigan	$676 69	
Total income from all sources		$8,120 26
Proportion of income for Michigan		$8,120 26

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Maintenance of way and buildings	$3,644 17
Total	$3,644 17

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MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$119 79
Repairs of freight cars	257 85
Total	$377 64

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$799 85
Oil and waste	126 18
Locomotive service	1,024 10
Freight train service	736 46
Total	$2,686 04

GENERAL EXPENSES.

Salaries of the general officers of the company	$1,250 00
Taxes	162 41
Total	$1,412 41

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	44.88	$3,644 17
Maintenance of motive power and cars	4.65	377 64
Conducting transportation	33.08	2,686 04
General expenses, including taxes	17.39	1,412 41
Total operating expenses and taxes	100.00	$8,120 26

Operating expenses and taxes per mile of road		$676 69
Operating expenses and taxes per train mile run, for trains earning revenue, 13,920 miles		58⅓
Total proportion of expenses for Michigan		8,120 26
Percentage of expenses to earnings	100	

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Manistee river south and east to forest terminus, September 3, 1886.

MAIN LINE.

	Miles.
In Michigan, from Manistee river to terminus	12.00
Total length completed	12.00
Total length of branches owned by company	1.50
Total length of branches owned by company in Michigan	1.50
Total length of road belonging to this company	13.50
Total length of road belonging to this company in Michigan	13.50

Gauge of track 3 feet.

Proprietary or leased roads operated by this company.

None.

Number of Bridges and Trestles in Michigan.

None.

Draw Bridges in Michigan.

None.

Crossings—Railroad and Highway.

Number of crossings of highways at grade in this State	4
Number of crossings of highways at grade in this State at which there are gates or flagmen	None.
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1884?	Yes.

Employés.

Number persons regularly employed on all roads operated by company, including officials	22
Same in Michigan	22

Classify your employés as per following list:	Number.
Brakemen	1
Engineers	1
Firemen	1
Others	19

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REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	None.
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:	
Crawford and Kalkaska	24

Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	12
Average number of men in each section gang	5

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender	1	$3,000 00
Logging cars	30	$4,900 00
Hand cars	1	100 00
Total	31	$5,000 00

Number of locomotives equipped with power brakes ..... None.

What patterns of power brakes have you in use and number of locomotives and cars with each?
Hand brake.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by freight trains during the year	13,920
Total mileage of trains earning revenue	13,920

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Number of tons of local freight carried	20,600		
Total tons of freight carried	20,600		
Average amount received for each ton haul			$0 39.4
Average rate per ton per mile received for local freight			03.3
Average rate per ton per mile, received for all freight			03.3

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Lumber and forest products	20,600
Total forwarded	20,600

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Lumber and forest products	20,600	100.00
Total tons carried	20,600	100.00

STATE OF MICHIGAN, } ss.
COUNTY OF MANISTEE. }

R. R. Blacker, president, and M. Foy, jr., secretary, of the Grass Lake & Manistee River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

R. R. BLACKER.
M. FOY, JR.

Subscribed and sworn to before me this 28th day of March, A. D. 1892.

[L. S.]

LOUIS E. MORRIS,
Notary Public.

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ANNUAL REPORT

OF THE

QUINCY & TORCH LAKE RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed April 5, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, THOMAS F. MASON, New York, N. Y.
Vice President, General Manager and Superintendent, S. B. HARRIS, Hancock, Mich.
Secretary and Treasurer, D. KLOECKNER, Hancock, Mich.
Chief Engineer, CHARLES E. BAILY, Hancock, Mich.
Receiver, THOMAS B. DUNSTAN, Hancock, Mich.

DIRECTORS.

THOMAS F. MASON, New York, N. Y.
S. B. HARRIS, Hancock, Mich.
THOMAS B. DUNSTAN, Hancock, Mich.
JAMES ROSS, Hancock, Mich.
GEORGE S. NORTH, Hancock, Mich.
D. KLOECKNER, Hancock, Mich.
THOMAS WHITTLE, Hancock, Mich.
Terms expire June 19, 1892.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—June 29, 1888.	
Number of stockholders at date of last election	7
Number of stockholders in Michigan at same date	6
Amount of full paid stock held in Michigan at same date	$600 00
Date of annual meeting of stockholders—Third Monday in June.	
Fiscal year of company ends December 31.	
General offices of the company are located at Hancock, Mich.	

GENERAL EXHIBIT.

	Debit.	Credit.
Total income		$15,808 68
Total expenses, including taxes	$15,754 46	
Net income		$54 22
Balance for the year		$54 22
Balance (profit and loss) last year		11,960 54
Balance forward to next year		$12,014 76

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			$50,000 00
Par value of shares		$100 00	
Number of shares issued	500		
Amount paid in on common		$50,000 00	
Total amount paid in, as per books of the company			$50,000 00
Paid in per mile of road owned by company (miles, 6)			$8,333 34

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ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

Class, character, and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
100 bonds of $1,000 each	6%	1905	New York	$100,000 00
Total funded debt				$100,000 00

UNFUNDED DEBT.

For what incurred.	Is the same to be funded, or how liquidated.	Amount.
For equipment		$30,699 15
For current balances		473 40
Total unfunded debt		$31,172 55

RECAPITULATION.

Total funded debt	$100,000 00
Total unfunded debt	31,172 55
Total debt liabilities	$131,172 55
Amount of debt liabilities per mile of road (6 miles)	$21,862 09
Total amount of stock and debt	181,172 55
Stock and debt per mile of road (6 miles)	30,195 43

GENERAL BALANCE SHEET.—DR.

Construction account Equipment account	$193,011 91
Cash items:	
Cash	175 43
Total	$193,187 34

GENERAL BALANCE SHEET.—CR.

Capital stock	$50,000 00
Funded debt	100,000 00
Unfunded debt:	
Vouchers and accounts	31,172 58
Profit and loss or income accounts	12,014 76
Total	$193,187 34

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction and equipment	$193,011 91
Average cost per mile of road (not included in sidings, 6 miles)	32,168 65
Proportion of cost for Michigan	32,168 65

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.

Extensions and new sidings	$12,896 16
Total charges to property account	$12,896 16

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ANALYSIS OF EARNINGS.

FREIGHT EARNINGS.

Main line and branches:		
Through traffic	$15,808 68	
Total traffic	$15,808 68	
Total freight department earnings		$15,808 68
Proportion for Michigan	$15,808 68	
Per train mile	1 46	
Per mile of road	2,634 78	
Total transportation earnings		$15,808 68
Transportation earnings per mile of road	$2,634 78	
Transportation earnings per train mile	1 46	
Total earnings from operation of road		$15,808 68
Total earnings per mile of road	2,634 78	
Total earnings per train mile	1 46	
Proportion of taxable earnings for Michigan		15,808 68
Total taxable earnings per mile of road in Michigan	2,634 78	
Total income from all sources		$15,808 68
Proportion of income for Michigan		$15,808 68

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND BUILDINGS.

Repairs of roadway and track	$2,982 45
Repairs of bridges, including culverts and cattle guards	96 00
Repairs of fences, road crossings and signs	374 77
Repairs of buildings	262 91
Total	$3,716 13

MAINTENANCE OF MOTIVE POWER AND CARS.

Repairs of locomotives	$265 35
Repairs of freight cars	1,260 40
Total	$1,525 75

CONDUCTING TRANSPORTATION.

Fuel for locomotives	$2,247 85
Water supply	323 27
Oil and waste	215 80
Locomotive service	3,015 75
Freight train service	2,396 65
Freight train supplies	1,125 98
Station supplies	790 00
Total	$10,114 30

GENERAL EXPENSES.

Taxes	$398 28
Total	$398 28

RECAPITULATION OF EXPENSES.

	Per cent of expenses.	
Maintenance of way and buildings	23.60	$3,716 13
Maintenance of motive power and cars	9.70	1,525 75
Conducting transportation	64.20	10,114 30
General expenses, including taxes	2.50	398 28
Total operating expenses and taxes	100.00	$15,754 46

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Operating expenses and taxes per mile of road		$2,625 74
Operating expenses and taxes per train mile run, for trains earning revenue (—— miles)		1 46
Proportion of operating expenses and taxes for Michigan, main line		15,754 46
Percentage of expenses to earnings	99.7	
Net earnings per mile of road		9 04
Net earnings per train mile	½c.	

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Quincy mine to Quincy mill, March, 1890.

MAIN LINE.

	Miles.
In Michigan, from Quincy mine to Quincy mill	6.00
Total length of road belonging to this company	6.00
Total length of road belonging to this company in Michigan	6.00
Aggregate length of tracks in Michigan belonging to this company computed as single track	6.00

Gauge of track 3 feet.

Number of Bridges and Trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden trestles	7	991
Total	7	991

Crossings—Railroad and Highway.

What railroads cross your road either over or under your grade in this State, and where?
Under:
Franklin tram railroad at s e ¼ section 25, town 55 north, range 34 west.

Are your frogs and guard rails blocked as required by Act 174, Session Laws 1884?
Yes.

How are they treated?
Blocked with wood.

Employés.

Number persons regularly employed on all roads operated by company, including officials	10
Same in Michigan	10

Classify your employés as per following list:

	Number.
Brakemen	2
Engineers	2
Firemen	1
Laborers	1
Yardmen	3
Others	1

REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?	7.35

Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:

Houghton county	4.65

Road Bed and Track.

Number of track sections in Michigan	1
Average length of sections (miles)	6
Average number of men in each section gang	4

ROLLING STOCK.

	Number.	Present estimated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	2	$15,000 00
Total	2	$15,000 00

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	Number.	Present estimated value.
Number of platform cars	7	$2,100 00
Number of ore cars	30	12,000 00
Other cars	1	240 00
Total	38	$14,340 00

Number of locomotives equipped with power brakes 2

What patterns of power brakes have you in use, and number of locomotives and cars with each?
Eames' Vacuum brakes on 2 locomotives.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
Are not.

What pattern or patterns have you adopted for use?
Link and pin.

MILEAGE, TRAFFIC, ETC.

Train Mileage.

Miles run by freight trains during the year	10,800
Total mileage of trains earning revenue	10,800

Freight Traffic.

	Numbers and quantities.	Miles.	Rate.
Total tons of freight carried	263,678		
Total freight mileage, or tons carried one mile	1,582,068		
Average ton haul for through freight		6	
Average amount received for each ton haul			$0 06
Average rate per ton per mile received for through freight			01

Freight Forwarded at Michigan Stations.

	Forwarded, tons.
Ores	263,678
Total forwarded	263,678

Tonnage of Articles Transported—Entire Road.

	Tons.	Per cent.
Ores	263,678	100.00
Total tons carried	263,678	100.00

STATE OF MICHIGAN, } ss.
COUNTY OF HOUGHTON. }

I, S. B. Harris, vice president, of the Quincy & Torch Lake Railroad Company, being being duly sworn, depose and say that I have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1891, to the best of my knowledge and belief.

Signed,

[L. S. OF R. R.] S. B. HARRIS.

Subscribed and sworn to before me this 30th day of March, A. D. 1892.
[L. S.] MAURICE E. WRIGHT,
Notary Public.

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ANNUAL REPORT

OF THE

DEAD RIVER RAILROAD COMPANY,

For the year ending December 31, 1891.

[Filed February 1, 1892.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and Secretary, I. W. SNYDER, South Bay City and Marquette, Mich.
Treasurer, R. K. HAWLEY, Cleveland, Ohio.

DIRECTORS.

R. K. HAWLEY, Cleveland, Ohio.
I. W. SNYDER, South Bay City, Mich.
JAMES BRAHANEY, Marquette, Mich.
DAN H. BALL, Marquette, Mich.
GEO. P. CUMMINGS, Marquette, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed—November 11, 1889.
Number of stockholders at date of last election 7
Number of stockholders in Michigan at same date 5
Amount of full paid stock held in Michigan at same date—Not any.
Date of annual meeting of stockholders—Have arranged for no annual meetings.
Fiscal year of company ends December 31.
General offices of the company are located at Marquette, Mich.

REMARKS.

The road is operated by the Duluth, South Shore & Atlantic Railway Company, under a contract with R. K. Hawley and T. H. McGraw, wherein said Duluth, South Shore & Atlantic Railway Company agrees to haul certain logs belonging to said Hawley and McGraw for a stated price per thousand feet.

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		$25,000 00
Par value of shares	$100 00	
Number of shares issued	None.	
Amount paid in on preferred (5% of $200 and cost of construction paid in full)	$1,000 00 51,010 96	
Total amount paid in as per books of the company		$52,010 96
Paid in per mile of road owned by company—miles 2.98		$17,453 34

ANALYSIS OF DEBT ACCOUNTS.

No debt accounts.

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RECAPITULATION.

Total amount of stock (stock authorized)	$25,000 00
Stock per mile of road (2.98 miles)	8,389 26

COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches built by Company.

Total expended for construction	$51,010 96
Average cost per mile of road, not included in sidings (2.98 miles)	17,117 77
Proportion of cost of construction for Michigan	51,010 96

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
August 11, 1890.

MAIN LINE.

	Miles.
Length completed in Michigan	2.98
Total length completed	2.98
Total length of road belonging to this company	2.98
Total length of road belonging to this company in Michigan	2.98
Aggregate length of sidings, spurs and other tracks not above enumerated	.17
Same in Michigan	.17
Aggregate length of tracks belonging to this company computed as single track	3.15
Same in Michigan	3.15

Gauge of track 4 feet 8½ inches.

STATE OF MICHIGAN, } ss.
COUNTY OF BAY. }

I. W. Snyder, president and secretary, of the Dead River Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained, of said company on the 31st day of December, A. D. 1891, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.]

I. W. SNYDER,
President and Secretary.

Subscribed and sworn to before me this 16th day of January, A. D. 1892.

[L. S.]

JAMES VANKLUCK,
Notary Public, Bay Co., Mich.

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TABLES

ACCOMPANYING

THE TWENTIETH ANNUAL REPORT

OF THE

COMMISSIONER OF RAILROADS

MICHIGAN--1892.

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TABLES

ACCOMPANYING THE TWENTIETH ANNUAL REPORT OF THE COMMISSIONER OF RAILROADS.

STATE OF MICHIGAN, 1892.

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1. General Exhibit.—Revenue and Disbursements.
2. Statement of Balances.
3. Capital Stock.
4. Indebtedness.
5. Cost.
6. Track Mileage.
7. Traffic Earnings.
8. Gross Income.
9. Expenses.
10. Analysis of Earnings and Expenses.
11. Train Mileage and Traffic.
12. Tonnage and Commodities Moved.
13. Equipment.
14. Stations and Employes.
15. Permanent Way.
16. Taxation.
17. Accidents.
18. Summary from Annual Reports of 1891 and 1892, Covering the Calendar Years 1890 and 1891, Respectively.
19. Comparative Summary of Returns from 1887 to 1891, Inclusive.

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1.—GENERAL EXHIBIT.—REVENUE AND DISBURSEMENTS.

Line Number.	Railroads.	Total revenue from operation.	Total operating expenses, including taxes.	Net result from Surplus.
1	Au Sable & Northwestern	$80,573 53	$77,304 31	$3,269 22
2	Chicago, Detroit & C. G. T. Junction	264,179 14	256,484 19	7,694 95
3	Chicago & Grand Trunk	3,866,669 69	2,959,612 97	907,056 72
4	Chicago, Kalamazoo & Saginaw	51,627 07	32,840 29	18,786 78
5	Chicago & Northwestern	29,395,791 28	19,122,634 92	10,273,156 36
6	Chicago & West Michigan	1,757,552 70	1,231,799 70	525,753 00
7	Cincinnati, Jackson & Mackinaw	728,981 84	590,111 52	138,869 82
8	Cincinnati, Saginaw & Mackinaw	184,731 05	143,863 82	40,867 23
9	Cincinnati, Wabash & Michigan	745,340 41	496,723 87	248,616 54
10	Detroit, Bay City & Alpena	417,674 26	284,855 09	132,819 17
11	Detroit, Grand Haven & Milwaukee	1,200,998 23	894,226 29	306,771 94
12	Detroit, Lansing & Northern	1,254,099 74	878,653 31	375,446 43
13	Grand Rapids, Lansing & Detroit			
14	Saginaw & Western			
15	Duluth, South Shore & Atlantic	2,148,387 50	1,317,386 49	831,001 01
16	Flint & Pere Marquette	2,544,758 43	1,789,021 80	755,736 63
17	Frankfort & Southeastern	34,149 63	20,725 66	13,423 97
18	Grand Rapids & Indiana	2,624,617 49	1,863,644 80	760,972 69
19	Muskegon, Grand Rapids & Indiana			
20	Traverse City			
21	Hancock & Calumet	175,925 88	107,562 49	68,363 39
22	Indiana & Lake Michigan	33,396 21	41,301 75	
23	Jefferson Avenue	1,973 85	2,752 35	
24	Lake Shore & Michigan Southern System	21,431,386 68	14,632,675 38	6,798,711 30
25	Detroit & Chicago			
26	Detroit, Hillsdale & Southwestern			
27	Detroit, Monroe & Toledo			
28	Fort Wayne & Jackson			
29	Kalamazoo, Allegan & Grand Rapids			
30	Kalamazoo & White Pigeon			
31	Northern Central Michigan			
32	Sturgis, Goshen & St. Louis			
33	Lowell & Hastings	10,554 88	9,310 27	1,244 61
34	Manistee & Grand Rapids	18,862 13	7,110 29	11,751 84
35	Manistee & Northeastern	115,041 09	80,051 35	34,989 74
36	Manistique	123,542 75	79,264 45	44,278 30
37	Mason & Oceana	43,295 61	41,574 11	1,721 50
38	Michigan Air Line Railway	154,310 52	135,294 63	19,015 89
39	Michigan Central System	15,162,960 17	11,107,569 50	4,055,390 67
40	Battle Creek & Sturgis			
41	Bay City & Battle Creek			
42	Canada Southern Bridge			
43	Detroit & Bay City			
44	Grand River Valley			
45	Jackson, Lansing & Saginaw			
46	Kalamazoo & South Haven			
47	Michigan Air Line Railroad			
48	Michigan Midland & Canada			
49	Saginaw Bay & Northwestern			
50	Toledo, Canada Southern & Detroit			
51	Milwaukee, Lake Shore & Western	3,534,108 87	2,217,646 72	1,316,457 15
52	Milwaukee & Northern	1,746,029 22	1,043,255 07	702,774 15
53	Mineral Range	146,504 63	78,032 54	68,472 09
54	Minneapolis, St. Paul & Sault Ste. Marie	2,586,821 18	1,600,880 06	985,941 09
55	Pontiac, Oxford & Northern	107,278 15	82,136 16	25,141 99
56	Saginaw, Tuscola & Huron	106,781 72	78,945 38	27,836 34

a Included in interest on funded debt.
b Sinking funds.
c Interest on guaranteed stock.
d Accrued interest.

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REVENUE AND DISBURSEMENTS.—CONTINUED.

year's business.	Payable from income.					Line Number.
Deficit.	Interest on the funded debt.	Interest on the floating debt.	Rentals, etc.	Dividends.	Total.	
						1
	$65,700 00			$43,800 00	$109,500 00	2
	659,991 58	$28,861 67	$129,044 39		817,897 64	3
						4
	5,728,598 10	*a*	*b* 410,425 00	3,445,804 00	9,584,827 10	5
	272,832 05	2,319 08		232,337 00	507,488 13	6
		1,078 22	18,617 98		19,696 20	7
	84,000 00				84,000 00	8
		82,337 97	23,722 48		106,060 45	9
	150,000 00			41,750 00	191,750 00	10
	324,500 00	14,723 32	24,365 04		363,588 36	11
	225,540 00	1,372 21	89,675 00		316,587 21	12
						13
						14
	516,932 00	253,692 62	59,731 75		830,356 37	15
	559,419 18	22,852 03		253,680 00	835,451 21	16
	15,180 00				15,180 00	17
	778,719 03	70,395 56	26,261 96		875,376 55	18
						19
						20
	15,975 00	18,021 74			33,996 74	21
$7,985 54	24,000 00				24,000 00	22
778 50		1,700 49			1,700 49	32
	3,204,370 00	*c* 58,350 00	557,154 38	2,967,990 00	6,782,864 38	24
						25
						26
						27
						28
						29
						30
						31
						32
						33
						34
		73,950 75			73,950 75	35
		7,229 12			7,229 12	36
		1,721 50			1,721 50	37
	75,433 34				75,433 34	38
	1,067,800 00		1,818,263 60	1,030,601 22	3,916,663 82	39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
	748,746 44	2,096 09	37,503 59	350,000 00	1,138,336 12	51
	369,480 00	256 30	27,875 44	246,330 00	643,941 74	52
	17,087 50	7,633 12	*d* 33,596 47		58,377 09	53
	846,036 08	609 87	111,561 10		958,207 05	54
			172 13	30,000 00	30,172 13	55
		33,640 45			33,640 45	56

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1.—GENERAL EXHIBIT.—REVENUE AND DISBURSEMENTS.—CONTINUED.

Line Number.	Railroads.	Total revenue from operation.	Total operating expenses, including taxes.	Net result from Surplus.
57	Saginaw Valley & St. Louis	$93,595 77	$71,461 44	$22,134 33
58	Saginaw & Grand Rapids			
59	St. Clair Tunnel	32,310 00	12,109 26	20,200 74
60	St. Joseph Valley	4,628 75	5,052 28	
61	Toledo, Ann Arbor & North Michigan	977,255 63	587,026 17	390,229 46
62	Toledo, Saginaw & Muskegon	115,225 13	95,110 11	20,115 02
63	Toledo & South Haven	27,037 99	19,940 38	7,097 61
64	Wabash (Detroit division) e	2,206,446 55	1,645,575 35	560,871 20
65	Wisconsin Central (Gogebic & Montreal River)	23,754 20	19,043 84	4,710 36
66	Detroit Union Railroad Depot & Station Co.	125,206 81	27,573 94	97,632 87
	Total commercial roads	$96,404,330 86	$65,788,144 33	$30,625,324 10
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$11,559 42	$9,128 04	$2,431 38
2	Crawford & Manistee River	13,183 96	13,061 02	122 94
3	Grass Lake & Manistee River	8,120 26	8,120 26	
4	Hecla & Torch Lake	100,427 76	100,427 76	
5	Lake County	14,421 95	15,497 95	
6	Manistee & Luther	105,193 96	76,738 90	28,455,06
7	North Branch & Sauble River	9,074 56	4,000 00	5,074 56
8	Quincy & Torch Lake	15,808 68	15,754 46	54 22
	Total ore and forest roads	$277,790 55	$242,728 89	$36,138 16
	Total all roads	$96,682,121 41	$66,030,872 72	$30,661,462 26

e Proportion based on mileage of Detroit division to entire system.

2.—GENERAL EXHIBIT.—STATEMENT OF BALANCES.

Line Number.	Railroads.	Balances December 31, 1891. Debit.	Credit.
1	Au Sable & Northwestern a		$3,289 22
2	Chicago, Detroit & Canada Grand Trunk Junction	$101,805 05	
3	Chicago & Grand Trunk		89,150 06
4	Chicago, Kalamazoo & Saginaw		18,786 75
5	Chicago & Northwestern		638,329 26
6	Chicago & West Michigan		18,264 87
7	Cincinnati, Jackson & Mackinaw		119,173 62
8	Cincinnati, Saginaw & Mackinaw	43,132 77	
9	Cincinnati, Wabash & Michigan		152,340 19
10	Detroit, Bay City & Alpena	58,980 83	
11	Detroit, Grand Haven & Milwaukee	56,816 42	
12	Detroit, Lansing & Northern		58,859 22
13	Grand Rapids, Lansing & Detroit		
14	Saginaw & Western		
15	Duluth, South Shore & Atlantic		12,875 39
16	Flint & Pere Marquette		25,761 68
17	Frankfort & Southeastern	1,756 03	
18	Grand Rapids & Indiana	114,403 86	
19	Muskegon, Grand Rapids & Indiana		
20	Traverse City		
21	Hancock & Calumet		39,366 65
22	Indiana & Lake Michigan	43,823 91	
23	Jefferson Avenue a	2,478 99	

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REVENUE AND DISBURSEMENTS.—CONTINUED.

year's business.	Payable from income.					Line Number.
Deficit.	Interest on the funded debt.	Interest on the floating debt.	Rentals, etc.	Dividends.	Total.	
	$35,680 00		$7,000 00		$42,680 00	57
						58
	20,200 74				20,200 74	59
$423 58	2,500 00				2,500 00	60
	371,640 00	$2,577 23	14,736 31		388,953 54	61
	78,000 00		1,362 39		79,362 39	62
			1,471 18		1,471 18	63
	586,692 68	ƒ 84,617 19	102,325 75		773,635 62	64
						65
						66
$9,137 57	$16,845,053 72	$764,586 53	$3,491,864 94	$8,642,292 22	$29,746,797 41	
	$519 49				$519 49	1
						2
						3
						4
$1,076 00						5
		$3,432 71	$2,000 00		5,432 71	6
						7
						8
$1,076 00	$519 49	$3,432 71	$2,000 00		$5,952 20	
$10,213 57	$16,845,573 21	$768,019 24	$3,496,864 94	$8,642,292 22	$29,752,749 61	

ƒ Sundries.

STATEMENT OF BALANCES.—CONTINUED.

Balances forwarded from 1890.		Taken to account other than for traffic.		Balances forward to 1892.		Line Number.
Debit.	Credit.	Debit.	Credit.	Debit.	Credit.	
					$3,269 22	1
			$101,805 05			2
		$59,159 08				3
	$44,114 20				62,900 98	4
	6,823,526 52				7,511,855 78	5
	366,950 94				385,215 81	6
	141,767 10				280,940 72	7
$7,987 07			44,685 99	$6,383 85		8
	652,175 65				804,515 84	9
	143,081 49				84,150 66	10
			56,816 42			11
	131,758 30				190,617 52	12
						13
						14
59,038 40				46,663 02		15
	6,408 26				32,169 94	16
621 23				2,977 26		17
166,810 46		190,600 68	4,537 54	467,277 46		18
						19
						20
	134,786 03	45,135 31			124,017 87	21
73,531,29				117,345 20		22
				2,478 99		23

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2.—GENERAL EXHIBIT.—STATEMENT OF BALANCES.—CONTINUED.

Line Number.	Railroads.	Balances December 31, 1891. Debit.	Credit.
24	Lake Shore & Michigan Southern System		$15,846 92
25	Detroit & Chicago		
26	Detroit, Hillsdale & Southwestern		
27	Detroit, Monroe & Toledo		
28	Fort Wayne & Jackson		
29	Kalamazoo, Allegan & Grand Rapids		
30	Kalamazoo & White Pigeon		
31	Northern Central Michigan		
32	Sturgis, Goshen & St. Louis		
33	Lowell & Hastings		1,244 61
34	Manistee & Grand Rapids *a*	$11,751 84	
35	Manistee & Northeastern	38,961 01	
36	Manistique		37,049 18
37	Mason & Oceana		
38	Michigan Air Line Railway	56,417 45	
39	Michigan Central System		133,726 85
40	Battle Creek & Sturgis		
41	Bay City & Battle Creek		
42	Canada Southern Bridge		
43	Detroit & Bay City		
44	Grand River Valley		
45	Jackson, Lansing & Saginaw		
46	Kalamazoo & South Haven		
47	Michigan Air Line Railroad		
48	Michigan Midland & Canada		
49	Saginaw Bay & Northwestern		
50	Toledo, Canada Southern & Detroit		
51	Milwaukee, Lake Shore & Western		182,871 24
52	Milwaukee & Northern		9,817 37
53	Mineral Range		10,095 00
54	Minneapolis, St. Paul & Sault Ste. Marie		27,734 04
55	Pontiac, Oxford & Northern	4,858 01	
56	Saginaw, Tuscola & Huron	5,804 11	
57	Saginaw Valley & St. Louis	20,545 67	
58	Saginaw & Grand Rapids		
59	St. Joseph Valley	423 53	
60	Toledo, Ann Arbor & North Michigan		1,275 92
61	Toledo, Saginaw & Muskegon	59,247 87	
62	Toledo & South Haven		5,626 43
63	Wabash		25,851 30
64	Wisconsin Central (Gogebic & Montreal River)		
65	Detroit Union Railroad Depot & Station Company		
	Total commercial roads	$621,156 85	$1,676,854 81
	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern		$3,784 22
2	Crawford & Manistee River		122 94
3	Grass Lake & Manistee River		
4	Hecla & Torch Lake		
5	Lake County	$1,076 00	
6	Manistee & Luther		23,023 35
7	North Branch & Sauble River		5,074 56
8	Quincy & Torch Lake		54 22
	Total ore and forest roads	$1,076 00	$31,058 28
	Total all roads	$622,232 85	$1,707,913 09

a First report.

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STATEMENT OF BALANCES.—CONTINUED.

Balances forwarded from 1890.		Taken to account other than for traffic.		Balances forward to 1892.		Line Number.
Debit.	Credit.	Debit.	Credit.	Debit.	Credit.	
	$11,647,210 66	$611,433 61	$560,886 48		$11,612,510 45	24
						25
						26
						27
						28
						29
						30
						31
						32
$1,114 72					129 89	33
				$11,751 84		34
60,830 72				99,791 78		35
	74,025 41				111,074 59	36
						37
			56,417 45			38
	6,708,464 22	250 00	58,878 46		6,905,819 53	39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
	532,717 41	160,000 00			555,588 65	51
	162,183 03				172,000 40	52
	244,201 44	51,418 70			202,882 74	53
		1,084 30	1,916 48		28,616 22	54
	14,321 21				9,468 20	55
58,336 56				64,190 67		56
93,922 46			1,396 00	113,072 13		57
						58
		27,650 32		28,073 85		59
	130,575 61				131,851 53	60
86,939 47			41,763 61	104,423 23		61
					5,626 43	62
	700,247 33				726,128 63	63
						64
						65
$609,122 38	$28,658,514 81	$1,176,677 00	$929,103 48	$1,063,829 23	$29,921,346 10	
	$6,303 82				$9,067 53	1
	308 11				431 05	2
	2,091 03				2,091 03	3
						4
	12,200 00				11,124 00	5
	1,817 80				24,840 15	6
	18,327 56				23,402 12	7
	11,960 54				12,014 76	8
	$53,008 86				$82,990 64	
$609,122 38	$28,711,523 17	$1,176,677 00	$929,103 48	$1,063,829 23	$30,004,336 74	

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3.—CAPITAL STOCK.

Line No.	Railroads.	Amount authorized.	Par value of shares.	Number of shares issued.
1	Au Sable & Northwestern	$560,000 00	$100 00	
2	Bay City Belt Line	100,000 00	100 00	980
3	Chicago, Detroit & C. G. T. Junction	1,095,000 00	100 00	10,950
4	Chicago & Grand Trunk	6,600,000 00	100 00	66,000
5	Chicago, Kalamazoo & Saginaw	2,000,000 00	100 00	
6	Chicago and Northwestern	Unlimited.	100 00	665,228
7	Chicago & West Michigan	6,800,000 00	100 00	67,332
8	Cincinnati, Jackson & Mackinaw	e 20,850,000 00	100 00	162,808
9	Cincinnati, Saginaw & Mackinaw	1,500,000 00	100 00	15,000
10	Cincinnati, Wabash & Michigan	Unlimited.	100 00	20,428
11	Detroit, Bay City & Alpena	2,000,000 00	100 00	16,700
12	Detroit, Grand Haven & Milwaukee	1,500,000 00	50 00	30,000
13	Detroit, Lansing and Northern	4,410,000 00	100 00	43,356
14	Grand Rapids, Lansing & Detroit	450,000 00	100 00	280
15	Saginaw & Western	675,000 00	100 00	45
16	Duluth, South Shore & Atlantic	22,000,000 00	100 00	220,000
17	Flint & Pere Marquette	10,000,000 00	100 00	95,402
18	Fort Street Union Depot Co.	1,000,000 00	100 00	5,010
19	Frankfort & Southeastern	100,000 00	100 00	571
20	Grand Rapids & Indiana	5,000,000 00	100 00	49,860
21	Muskegon, Grand Rapids & Indiana	350,000 00	100 00	
22	Traverse City	205,000 00	100 00	2,050
23	Hancock & Calumet	350,000 00	100 00	3,500
24	Indiana & Lake Michigan	800,000 00	100 00	8,000
25	Jefferson Avenue	100,000 00	100 00	50
26	Lake Shore & Michigan Southern System	50,000,000 00	100 00	500,000
27	Detroit & Chicago	1,000,000 00	100 00	10,000
28	Detroit, Hillsdale & Southwestern	1,350,000 00	100 00	13,500
29	Detroit, Monroe & Toledo	414,100 00	100 00	4,141
30	Fort Wayne & Jackson	3,000,000 00	100 00	27,275
31	Kalamazoo, Allegan & Grand Rapids	610,000 00	100 00	6,100
32	Kalamazoo & White Pigeon	230,900 00	100 00	2,309
33	Northern Central Michigan	610,000 00	100 00	6,100
34	Sturgis, Goshen & St. Louis	2,000,000 00	100 00	
35	Lowell & Hastings	200,000 00	100 00	
36	Manistee & Northeastern	600,000 00	100 00	6,000
37	Manistee & Grand Rapids	1,000,000 00	100 00	50
38	Manistique	500,000 00	100 00	1,500
39	Mason & Oceana	150,000 00	100 00	1,500
40	Michigan Air Line Railway	1,500,000 00	100 00	3,000
41	Michigan Central System	Unlimited.	100 00	187,382
42	Battle Creek & Sturgis	1,000,000 00	100 00	5,000
43	Bay City & Battle Creek	1,000,000 00	100 00	3,000
44	Canada Southern Bridge	1,500,000 00	100 00	4,500
45	Detroit & Bay City	2,000,000 00	100 00	20,000
46	Grand River Valley	1,000,000 00	50 00	9,824
47	Jackson, Lansing & Saginaw	2,500,000 00	100 00	20,000
48	Kalamazoo & South Haven	500,000 00	100 00	3,254
49	Michigan Air Line Railroad	4,000,000 00	50 00	7,855
50	Michigan Midland & Canada	400,000 00	100 00	3,000
51	Saginaw Bay & Northwestern	300,000 00	100 00	2,000
52	Toledo, Canada Southern & Detroit	2,000,000 00	100 00	15,476
53	Milwaukee, Lake Shore & Western	10,000,000 00	100 00	76,500
54	Milwaukee & Northern	8,000,000 00	100 00	61,582
55	Mineral Range	400,000 00	100 00	3,934
56	Minneapolis, St. Paul & Sault Ste. Marie	21,000,000 00	100 00	210,000
57	Pontiac, Oxford & Northern	1,000,000 00	100 00	10,000
58	Saginaw, Tuscola & Huron	600,000 00	100 00	1,233
59	Saginaw Valley & St. Louis	300,000 00	100 00	2,553
60	Saginaw & Grand Rapids	70,000 00	100 00	700
61	St. Joseph Valley	300,000 00	100 00	3,000
62	St. Clair Tunnel	700,000 00	100 00	7,000
63	Toledo, Ann Arbor & Northern Michigan	6,200,000 00	100 00	62,000
64	Toledo, Saginaw & Muskegon	1,600,000 00	100 00	16,009
65	Toledo & South Haven	250,000 00	100 00	2,500
66	Wabash	52,000,000 00	100 00	520,000
67	Wisconsin Central (Gogebic & Montreal River)	600,000 00	100 00	6,000
68	Detroit Union R. R. Depot & Station Co.	1,650,000 00	100 00	16,500
	Total commercial roads	$272,480,000 00		3,346,778

e Operated by receiver. These figures are taken from the company's report for 1890.

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CAPITAL STOCK.—CONTINUED.

Amounts paid in.						Stockholders.		Line No.
On common.	On preferred.	On shares not issued.	Total	Per mile of road.	Amount held in Michigan.	Whole No.	No. in Mich.	
		$41,500 00	$41,500 00	$391 51	$41,500 00	8	8	1
$93,000 00		1,734 95	94,734 95	15,061 20		7	6	2
978,984 67			978,984 67	18,448 65	200 00	28	2	3
6,600,000 00			6,600,000 00	20,214 40	147,500 00	279	18	4
		3,575 00	3,575 00	80 88	3,575 00	10	10	5
44,187,365 97	$22,335,454 56		66,522,820 53	15,567 92	96,000 00	3,555	9	6
6,733,200 00		63,600 00	6,796,800 00	14,115 88	7,600 00	626	5	7
10,413,835 00	5,867,000 00		16,280,835 00	50,079 46	17,000 00	259	9	8
1,500,000 00			1,500,000 00	28,301 88	676,500 00	8	7	9
2,043,800 00		258 76	2,044,058 76	10,119 10		40		10
1,670,000 00			1,670,000 00	7,978 22	1,542,400 00	11	9	11
1,500,000 00			1,500,000 00	7,936 51	250 00	11	5	12
1,825,600 00	2,510,000 00		4,335,600 00	19,567 63	18,000 00	461	2	13
28,000 00			28,000 00	504 14	100 00	8	1	14
4,500 00			4,500 00	105 71	100 00	9	1	15
12,000,000 00	10,000,000 00		22,000,000 00	40,723 40	1,192,700 00	267	23	16
3,298,200 00	6,342,000 00		9,640,200 00	12,949 84	46,400 00	1,697	10	17
501,000 00			501,000 00		127,000 00	13	4	18
57,100 00			57,100 00	2,307 07	500 00	7	1	19
4,986,081 22			4,986,081 22	11,459 09	*f*	684	275	20
		1,000 00	1,000 00	27 14	1,000 00	7	7	21
205,000 00			205,000 00	7,884 62	35,150 00	75	73	22
350,000 00			350,000 00	16,196 20	*f*	11	*f*	23
800,000 00			800,000 00	20,361 41		5		24
5,000 00			5,000 00	1,000 00	5,000 00	7	7	25
49,466,500 00	533,500 00		50,000,000 00	57,812 16	22,750 00	3,436	28	26
1,000,000 00			1,000,000 00	14,792 90	1,000 00	11	1	27
1,350,000 00			1,350,000 00	20,705 52	1,700 00	340	2	28
414,100 00			414,100 00	6,640 47	100 00	2	1	29
436,132 00	2,291,416 00		2,727,548 00	27,880 48	109,000 00	358	11	30
610,000 00			610,000 00	10,441 63	206,600 00	92	14	31
230,900 00			230,900 00	6,313 64		1	1	32
610,000 00			610,000 00	9,977 12		1		33
						1		34
		10,000 00	10,000 00	800 00		7	7	35
30,000 00			30,000 00	430 35	30,000 00	7	7	36
5,000 00		400,900 00	405,900 00	17,257 65	5,000 00	8	8	37
150,000 00			150,000 00	3,125 00	*f*	*f*	*f*	38
150,000 00			150,000 00	5,555 55	150,000 00	7	7	39
300,000 00			300,000 00	2,840 91	1,500 00	7	3	40
18,738,204 00			18,738,204 00	69,382 77	86,900 00	1,358	18	41
500,000 00			500,000 00	12,195 12				42
300,000 00			300,000 00	16,666 66				43
450,000 00			450,000 00	122,950 81	5,500 00	14	2	44
2,000,000 00			2,000,000 00	13,668 67	40,000 00	7	4	45
491,200 00			491,200 00	8,562 27	314,350 00	45	26	46
2,000,000 00			2,000,000 00	6,777 36	1,806,600 00	33	21	47
325,400 00			325,400 00	8,237 97	325,000 00	199	124	48
Unknown.								49
300,000 00			300,000 00	20,435 96	10,700 00	29	3	50
200,000 00			200,000 00	2,293 32				51
1,547,662 50			1,547,662 50	26,267 18	200 00	15	1	52
2,650,000 00	5,000,000 00		7,650,000 00	10,564 54		435		53
6,158,250 00			6,158,250 00	17,000 00		24		54
398,400 00			398,400 00	23,141 18		45		55
14,000,000 00	7,000,000 00		21,000,000 00	23,765 06		73		56
1,000,000 00			1,000,000 00	10,000 00	3,000 00	7	3	57
123,300 00		255 88	123,555 88	1,856 02	60,300 00	124	120	58
255,300 00		9,504 01	264,804 01	7,459 27	25,200 00	84	66	59
70,000 00			70,000 00	19,444 44	100 00	24	1	60
300,000 00			300,000 00	30,000 00	400 00	7	4	61
70,000 00			70,000 00	31,977 16	15,000 00	8	2	62
6,200,000 00			6,200,000 00	21,761 25	*f*	*f*	*f*	63
1,600,000 00			1,600,000 00	16,666 67	1,000 00	12	10	64
242,500 00			242,500 00	6,625 68	*f*	*f*	*f*	65
28,000,000 00	24,000,000 00		52,000,000 00	33,661 31	Unknown.			66
600,000 00			600,000 00	44,543 43		6		67
1,650,000 00			1,650,000 00	494,011 97	1,640,000 00	16	15	68
$244,698,515 36	$85,879,370 56	$532,328 10	$331,110,214 02	$25,310 64	$8,563,275 00	15,026	1,001	

f Not reported.

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3.—CAPITAL STOCK.

Line No.	Railroads.	Amount authorized.	Par value of shares.	Number of shares issued.
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$250,000 00	$100 00	1,046
2	Crawford & Manistee River	50,000 00	100 00	500
3	Dead River	25,000 00	100 00	
4	Grass Lake & Manistee River	52,000 00	100 00	350
5	Hecla & Torch Lake	150,000 00	100 00	1,000
6	Lake County	300,000 00	100 00	
7	Manistee & Luther	400,000 00	100 00	4,000
8	North Branch & Sauble River	50,000 00	100 00	200
9	Quincy & Torch Lake	50,000 00	100 00	500
	Total ore and forest roads	$1,327,000 00		7,596
	Total all roads	$273,807,000 00		3,354,374

4.—INDEBTEDNESS.

Line No.	Railroads.	Funded.	Unfunded.	Total.
1	Au Sable & Northwestern		$132,827 33	$132,827 33
2	Bay City Belt Line	g		
3	Chicago, Detroit & C. G. T. Junction	$1,786,141 46		1,786,141 46
4	Chicago & Grand Trunk	12,000,000 00	1,623,305 18	13,623,305 18
5	Chicago, Kalamazoo & Saginaw			
6	Chicago & Northwestern	112,235,500 00	5,202,318 69	117,437,818 69
7	Chicago & West Michigan	5,212,000 00	2,411,765 74	7,622,765 74
8	Cincinnati, Jackson & Mackinaw		138,843 67	138,843 67
9	Cincinnati, Saginaw & Mackinaw	1,680,000 00	73,320 17	1,753,320 17
10	Cincinnati, Wabash & Michigan		1,434,175 65	1,434,175 65
11	Detroit, Bay City & Alpena	2,500,000 00	89,883 46	2,589,883 46
12	Detroit, Grand Haven & Milwaukee	5,426,000 00	794,673 32	6,220,673 32
13	Detroit, Lansing & Northern	3,442,000 00	482,441 58	3,924,441 58
14	Grand Rapids, Lansing & Detroit	1,108,000 00	134,646 00	1,242,646 00
15	Saginaw & Western	566,000 00		566,000 00
16	Duluth, South Shore & Atlantic	20,376,235 00	8,078,057 46	28,454,292 46
17	Flint & Pere Marquette	9,889,000 00	1,104,993 29	10,993,993 29
18	Fort Street Union Depot Company	100,000 00	738,414 90	838,414 90
19	Frankfort & Southeastern	253,000 00	11,357 74	264,357 74
20	Grand Rapids & Indiana	13,000,000 00	*1,723,129 85	14,723,129 85
21	Muskegon, Grand Rapids & Indiana	750,000 00	18,865 75	768,865 75
22	Traverse City	440,000 00	3,750 00	443,750 00
23	Hancock & Calumet	400,000 00	65,798 47	465,798 47
24	Indiana & Lake Michigan	480,000 00	117,345 20	597,345 20
25	Jefferson Avenue		77,244 45	77,244 45

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CAPITAL STOCK.—CONTINUED.

Amounts paid in.						Stockholders.		Line No.
On common.	On preferred.	On shares not issued.	Total.	Per mile of road.	Amount held in Michigan.	Whole No.	No. in Mich.	
$104,664 00			$104,664 00	$5,814 66		7	7	1
50,000 00			50,000 00	5,000 00	$50,000 00	7	7	2
		$52,010 96	52,010 96	17,453 34		7	5	3
35,000 00		5,000 00	40,000 00	3,333 33	40,000 00	8	8	4
100,000 00			100,000 00	13,333 33	200 00	6	2	5
		60,000 00	60,000 00	5,454 54		7	6	6
300,000 00			300,000 00	4,687 50	300,000 00	7	7	7
20,000 00			20,000 00	2,000 00	20,000 00	7	7	8
50,000 00			50,000 00	8,333 34	600 00	7	6	9
$659,664 00		$117,010 96	$776,674 96	$5,489 64	$410,800 00	63	56	
$245,858,179 36	$85,879,370 56	$649,339 06	$331,886,888 98	$25,098 57	$8,974,075 00	15,089	1,057	

INDEBTEDNESS.—CONTINUED.

Miles of road owned.	Debt per mile of road owned.	Indebtedness previous report.	Increase during 1891.	Decrease during 1891.	Total interest on indebtedness 1891.	Line No.
106.00	$1,253 09	a	$132,827 33			1
6.29						2
59.37	30,084 92	$1,786,141 46			$65,700 00	3
326.50	41,725 28	13,281,852 29	841,452 89		688,853 25	4
44.20						5
3,084.60	57,523 44	112,015,220 40	5,422,598 29		5,728,598 10	6
481.50	15,833 36	5,594,027 54	2,029,738 20		275,151 13	7
326.10	425 77	155,341 49		$16,497 83	1,078 22	8
53.00	33,081 51	1,707,399 09	45,921 08		84,000 00	9
204.00	7,080 27	1,466,748 95		32,573 30	32,337 97	10
209.32	12,372 84	2,510,748 10	79,135 36		150,000 00	11
189.00	32,913 61	6,236,265 31		15,591 99	339,223 32	12
231.57	17,711 97	3,812,833 74	111,602 84		226,912 21	13
55.54	22,373 89	1,241,878 25	767 75		55,400 00	14
42.57	13,295 75	566,000 00			39,960 00	15
540.23	52,670 70	26,884,300 17	2,069,992 29		770,624 62	16
772.21	14,237 05	10,557,384 50	436,608 79		581,771 21	17
			838,414 90			18
22.75	11,620 12	254,548 36	9,809 38		15,180 00	19
435.12	88,386 80	14,189,264 70	583,365 15		849,114 59	20
36.85	20,864 94	768,790 75	75 00		37,500 00	21
26.00	17,067 31	443,750 00			7,500 00	22
21.61	21,554 76	367,599 17	98,199 30		33,996 74	23
39.29	15,203 49	553,521 29	43,823 91		24,000 00	24
5.62	13,744 57	a	77,244 45		1,700 49	25

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4.—INDEBTEDNESS.—CONTINUED.

Line No.	Railroads.	Funded.	Unfunded.	Total.
26	Lake Shore & Michigan Southern System	$45,766,000 00		$45,766,000 00
27	Detroit & Chicago	*b*		
28	Detroit, Hillsdale & Southwestern	None.		None.
29	Detroit, Monroe & Toledo	*b*		
30	Fort Wayne & Jackson	None.		
31	Kalamazoo, Allegan & Grand Rapids	840,000 00		840,000 00
32	Kalamazoo & White Pigeon	*b*		
33	Northern Central Michigan	1,525,000 00		1,525,000 00
34	Sturgis, Goshen & St. Louis	401,000 00		401,000 00
35	Lowell & Hastings		$163,064 09	163,064 09
36	Manistee & Grand Rapids			
37	Manistee & Northeastern		1,304,466 69	1,304,466 69
38	Manistique		151,997 93	151,997 93
39	Mason & Oceana		97,393 07	97,393 07
40	Michigan Air Line Railway	1,508,666 67		1,508,666 67
41	Michigan Central System	10,000,000 00	2,389,715 50	12,389,715 50
42	Battle Creek & Sturgis	500,000 00		500,000 00
43	Bay City & Battle Creek	250,000 00		250,000 00
44	Canada Southern Bridge	1,000,000 00	1,267,300 72	2,267,300 72
45	Detroit & Bay City	*c* 4,000,000 00		4,000,000 00
46	Grand River Valley	*d* 1,500,000 00		1,500,000 00
47	Jackson, Lansing & Saginaw	2,325,000 00		2,325,000 00
48	Kalamazoo & South Haven	*e* 700,000 00		700,000 00
49	Michigan Air Line Railroad	*f* 2,600,000 00		2,600,000 00
50	Michigan Midland & Canada	322,635 00	451,308 14	774,943 14
51	Saginaw Bay & Northwestern			
52	Toledo, Canada Southern & Detroit	1,511,737 50	1,942,780 00	3,454,517 50
53	Milwaukee, Lake Shore & Western	13,284,000 00	559,279 32	13,843,279 32
54	Milwaukee & Northern	6,158,000 00	49,275 87	6,207,275 87
55	Mineral Range	645,600 00	167,813 01	813,413 01
56	Minneapolis, St. Paul & Sault Ste. Marie	21,891,649 63	1,735,540 80	23,627,190 43
57	Pontiac, Oxford & Northern		10,754 46	10,754 46
58	Saginaw, Tuscola & Huron		946,697 36	946,697 36
59	Saginaw Valley & St. Louis	446,000 00	136,564 13	582,564 13
60	Saginaw & Grand Rapids			
61	St. Clair Tunnel	2,240,000 00	352,708 31	2,592,708 31
62	St. Joseph Valley	50,000 00	45,112 12	95,112 12
63	Toledo, Ann Arbor & North Michigan	6,300,000 00	505,534 07	6,805,534 07
64	Toledo, Saginaw & Muskegon	1,560,000 00	143,385 65	1,703,385 65
65	Toledo & South Haven	216,000 00	540 76	216,540 76
66	Wabash (Detroit division)	*h* 78,000,000 00		78,000,000 00
67	Wisconsin Central (Gogebic & Montreal River)	520,000 00		520,000 00
68	Detroit Union R. R. Depot & Station Co.	600,000 00		600,000 00
	Total commercial roads	$398,306,165 26	$36,878,334 90	$435,184,500 16
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$3,589 94	$4,871 37	$8,461 31
2	Crawford & Manistee River	*g*		
3	Dead River			
4	Grass Lake & Manistee River	*g*		
5	Hecla & Torch Lake		412,451 32	412,451 32
6	Hobart & Manistee River			
7	Lake County	*g*		
8	Manistee & Luther		37,750 25	37,750 25
9	North Branch & Sauble River		7,334 70	7,334 70
10	Quincy & Torch Lake	100,000 00	31,172 58	131,172 58
	Total ore and forest roads	$103,589 94	$493,580 22	$597,170 16
	Total all roads	$398,409,755 20	$37,371,915 12	$435,781,670 32

a First report.
b Included in the L. S. & M. S.
c M. C. R. R. bonds secured by first mortgage on the D. & B. C. R. R.
d M. C. R. R. bonds secured by first mortgage on the G. R. V. R. R.

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INDEBTEDNESS.—CONTINUED.

Miles of road owned.	Debt per mile of road owned.	Indebtedness previous report.	Increase during 1891.	Decrease during 1891.	Total interest on indebtedness 1891.	Line No.
1,122.63	$44,564 54	$46,016,000 00		$250,000 00	$3,257,720 00	26
						27
65.20						28
						29
97.88						30
58.42	14,378 64	840,000 00			42,000 00	31
						32
b		1,525,000 00			122,000 00	33
b		401,000 00			12,030 00	34
12.50	13,045 53	141,546 64	$21,517 45			35
28.52		*a*				36
59.61	21,883 34	975,390 67	329,076 02		73,950 75	37
48.00	3,166 62	137,028 82	14,969 10		7,229 12	38
27.00	3,607 15	71,045 95	26,347 12		1,721 50	39
105.60	14,286 61	1,508,666 67			75,433 34	40
270.07	45,875 94	12,053,187 93	336,527 57		1,067,800 00	41
41.00	12,195 12	500,000 00			15,000 00	42
18.00	13,888 88	250,000 00			7,500 00	43
3.66	619,481 07	2,194,363 12	72,937 60		70,000 00	44
146.32	27,337 34	3,576,000 00	424,000 00			45
83.79	17,900 00	1,500,000 00			90,000 00	46
295.10	7,878 70	2,290,000 00	35,000 00		185,820 00	47
89.50	17,721 51	700,000 00				48
115.16	22,577 11	2,600,000 00				49
14.68	52,789 00	745,040 42	29,902 72		22,610 00	50
87.21						51
58.92	58,680 61	3,349,517 60	105,000 50		105,000 00	52
734.12	19,117 37	12,357,711 12	1,485,568 20		750,832 53	53
362.25	19,637 75	6,226,021 82		29,345 95	369,736 20	54
17.00	47,347 82	641,254 84	172,158 17		50,683 97	55
883.65	26,738 18	20,735,038 63	2,892,156 80		846,645 95	56
100.20	107 32	10,370 01	384 45			57
66.57	14,221 08	671,150 90	275,546 46		33,640 45	58
35.50	16,410 26	564,132 06	18,432 07		35,630 00	59
3.60						60
2.19		*a*	2,592,703 31			61
10.00	9,511 21	89,097 45	6,014 67		2,500 00	62
284.91	23,896 61	6,817,830 86		12,296 79	374,217 28	63
96.00	17,743 08	1,680,635 73	22,699 92		78,000 00	64
36.60	5,916 41	216,532 82	7 94			65
339.50		78,000,000 00			2,669,754 11	66
13.47	28,604 28	520,000 00				67
3.34		600,000 00			24,000 00	68
13,081.86	$33,266 25	$414,407,779 03	$21,133,026 98	$356,305 85	$20,450,107 10	
18.00	$464 52	$12,993 14		$4,531 83	$519 49	1
10.00						2
2.98						3
12.00						4
7.50	55,020 17	410,010 47	$2,440 85			5
		43,199 41		43,199 41		6
11.00		800 00		800 00		7
64.00	589 84	55,919 08		18,168 83	3,432 71	8
10.00	732 47	12,529 77		5,195 07		9
6.00	21,862 09	118,297 97	12,874 61			10
141.48	$4,220 81	$653,749 84	$15,315 46	$71,895 14	$3,952 20	
13,223.34	$32,955 48	$415,061,528 87	$21,148,342 44	$428,200 99	$20,454,059 30	

e M. C. R. R. bonds secured by first mortgage on the K. & S. H. R. R.
f M. C. R. R. bonds secured by first mortgage on the M. A. L. R. R.
g Not reported.
h Entire system.

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5.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.

Line No.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
1	Au Sable & Northwestern	$173,000 00	$4,552 63	$173,000 00
2	Bay City Belt Line	54,178 43	3,613 85	54,178 43
3	Chicago, Detroit & Canada Grand Trunk Junction	2,765,126 13	46,574 46	2,765,126 13
4	Chicago & Grand Trunk	19,076,298 77	58,426 64	13,087,570 00
5	Chicago, Kalamazoo & Saginaw	*b*		
6	Chicago & Northwestern	161,103,511 67	37,702 05	14,950,749 09
7	Chicago & West Michigan	12,255,858 72	25,453 50	11,378,731 21
8	Cincinnati, Jackson & Mackinaw	*c* 19,969,351 54	61,236 89	9,502,740 59
9	Cincinnati, Saginaw & Mackinaw	3,194,699 09	60,277 34	3,194,699 09
10	Cincinnati, Wabash & Michigan	4,069,643 68	19,949 23	663,311 89
11	Detroit, Bay City & Alpena	4,801,616 47	20,350 43	4,801,616 47
12	Detroit, Grand Haven & Milwaukee	6,998,649 90	37,029 89	6,998,649 90
13	Detroit, Lansing & Northern	7,512,475 72	33,905 65	7,512,475 72
14	Grand Rapids, Lansing & Detroit	1,270,646 00	22,878 03	1,270,646 00
15	Saginaw & Western	558,735 65	13,124 16	558,735 65
16	Duluth, South Shore & Atlantic	29,955,744 98	77,523 21	24,685,715 76
17	Flint & Pere Marquette	20,889,253 05	27,051 30	20,889,253 05
18	Fort Street Union Depot Company	1,389,414 90		1,389,414 90
19	Frankfort & Southeastern	310,037 70	13,779 44	310,037 70
20	Grand Rapids & Indiana	17,376,661 02	39,935 33	15,255,695 62
21	Muskegon, Grand Rapids & Indiana	746,978 21	20,270 78	746,978 21
22	Traverse City	646,268 15	24,856 47	646,268 15
23	Hancock & Calumet	886,809 88	33,723 27	886,809 88
24	Indiana & Lake Michigan	595,313 88	15,151 79	379,552 34
25	Jefferson Avenue	38,422 55	6,886 75	38,422 55
26	Lake Shore & Michigan Southern System	84,000,000 00	90,082 44	21,047,902 49
27	Detroit & Chicago	5,176,557 58	76,576 29	4,818,713 07
28	Detroit, Hillsdale & Southwestern	1,342,160 33	20,585 28	1,342,160 33
29	Detroit, Monroe & Toledo	1,381,600 00	22,155 22	1,196,381 88
30	Fort Wayne & Jackson	2,719,579 53 *f*	27,799 03	1,288,165 79
31	Kalamazoo, Allegan & Grand Rapids	1,450,000 00	24,820 27	1,450,000 00
32	Kalamazoo & White Pigeon	610,000 00	16,639 00	610,000 00
33	Northern Central Michigan	1,357,000 00	22,195 00	1,357,000 00
34	Sturgis, Goshen & St. Louis	*d*		
35	Lowell & Hastings	173,064 09	13,845 12	173,064 09
36	Manistee & Grand Rapids	362,885 20	15,594 55	362,885 20
37	Manistee & Northeastern	1,234,674 96	20,712 05	1,234,674 96
38	Manistique	399,499 74	8,322 91	399,499 74
39	Mason & Oceana	243,349 81	9,112 95	243,349 81
40	Michigan Air Line Railway	1,813,442 80	17,172 75	1,813,442 80
41	Michigan Central System	31,083,185 59	115,093 07	25,435,568 47
42	Battle Creek & Sturgis	1,000,330 59	24,106 38	1,000,330 59
43	Bay City & Battle Creek	559,271 75	30,555 54	559,271 75
44	Canada Southern Bridge	1,780,977 05	486,606 00	1,780,977 05
45	Detroit & Bay City	8,732,549 23	25,509 50	8,732,549 23
46	Grand River Valley	2,867,053 00	34,229 17	2,867,053 00
47	Jackson, Lansing & Saginaw	8,173,085 56	27,695 99	8,173,085 56
48	Kalamazoo & South Haven	465,475 00	11,784 18	465,475 00
49	Michigan Air Line Railroad	3,154,267 15	27,390 30	2,987,881 73
50	Michigan Midland & Canada	586,342 02	39,941 56	586,342 02
51	Saginaw Bay & Northwestern	225,526 15	2,586 01	225,526 15
52	Toledo, Canada Southern & Detroit	3,126,710 77	53,067 05	2,645,419 70
53	Milwaukee, Lake Shore & Western	21,621,899 04	29,859 55	3,513,561 70
54	Milwaukee & Northern	12,542,277 09	34,623 26	3,696,033 34
55	Mineral Range	797,006 27	46,882 72	797,006 27
56	Minneapolis, St. Paul & Sault Ste. Marie	37,559,898 36	42,505 40	8,161,461 85
57	Pontiac, Oxford & Northern	1,000,000 00	10,000 00	1,000,000 00
58	Saginaw, Tuscola & Huron	904,328 33	13,584 62	904,328 33
59	Saginaw Valley & St. Louis	705,213 81	19,865 18	705,213 81
60	Saginaw & Grand Rapids	70,000 00	19,444 44	70,000 00
61	St. Clair Tunnel	3,018,373 31		1,392,085 17
62	St. Joseph Valley	889,063 27	38,906 83	889,063 27
63	Toledo, Ann Arbor & North Michigan	12,948,915 91	45,449 14	12,721,670 19

b In the hands of the construction company.
c In the hands of receiver.
d Not reported.
f Taken from report of 1891.

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COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Proportion of cost for Michigan previous year.	Increased cost, 1891.	Decreased cost, 1891.	Total stock and debt.	Stock and dept per mile of road.	Excess of stock and debt over reported cost per mile of road.	Line No.
a	$173,000 00		$174,327 33	$4,587 56	$34 93	1
a	54,178 43		94,734 95			2
$2,765,126 13			2,765,126 13	48,528 57	1,954 11	3
12,940,520 25	147,049 75		20,223,305 18	61,939 68	3,513 04	4
			3,575 00			5
14,168,655 96	782,098 13		183,960,639 22	43,051 16	5,349 11	6
11,371,811 59	6,919 62		14,420,565 74	29,949 25	495 75	7
9,499,973 12	2,767 47		16,419,678 67	62,984 34	1,697 45	8
3,180,000 00	14,699 09		3,253,320 17	61,383 40	1,106 06	9
649,156 38	14,155 51		3,478,284 41	17,051 60		10
4,245,307 71	56,308 76		4,259,883 46	20,351 06	199 37	11
6,988,051 75	10,598 15		7,720,973 32	40,850 12	3,820 23	12
7,505,318 14	7,157 58		8,260,041 58	37,279 60	3,373 95	13
1,269,878 25	767 75		1,270,646 00	22,878 03		14
558,400 00	335 65		570,500 00	13,401 48	277 80	15
24,485,993 77	199,721 99		50,454,292 46	78,441 10	917 89	16
20,188,087 21	406,195 84		20,634,193 29	27,186 89	185 59	17
	1,339,414 90		1,339,414 90			18
310,376 63		$338 93	321,457 74	12,988 19		19
15,221,781 29	33,914 83		19,709,211 07	45,296 04	5,360 71	20
746,979 21			769,865 75	20,595 88	625 10	21
646,268 15			648,750 00	24,951 93	95 46	22
774,265 06	62,544 82		815,798 47	37,750 97	972 30	23
361,595 00	17,957 34		1,397,345 20	35,564 91	20,413 12	24
a	38,422 55		82,244 45	14,634 24	7,797 49	25
21,047,902 49			95,766,000 00	102,376 70	12,344 26	26
4,818,713 07			1,000,000 00	14,792 90		27
1,342,160 33			1,350,000 00	20,705 52	119 94	28
1,196,381 88			414,100 00	21,472 69		29
1,288,168 79			2,727,548 00	27,880 48	81 45	30
1,450,000 00			1,450,000 00	24,820 27		31
610,000 00			230,900 00	17,251 56	571 56	32
1,357,000 00			2,135,000 00	34,919 86	12,724 86	33
			401,000 00			34
151,546 14	21,517 95		173,064 09	13,845 52		35
a	362,885 20		405,900 00			36
944,559 95	290,115 01		1,334,466 69	22,386 62	1,674 57	37
354,271 11	45,328 63		301,997 93	6,291 62		38
217,607 86	25,742 45		247,393 07	9,152 70	49 75	39
1,812,743 58	700 22		1,806,666 67	17,127 52		40
25,429,183 67	6,385 80		31,127,919 50	115,258 71	165 64	41
1,000,000 00	380 59		1,000,000 00	24,096 38		42
	559,271 75		550,000 00	30,555 54		43
1,780,977 05			2,717,300 72	742,431 89	255,825 89	44
3,705,619 79	26,929 44		6,000,000 00	13,668 67		45
2,878,807 58		11,754 58	1,991,200 00	23,762 27		46
8,163,785 56	9,300 00		4,325,000 00	14,656 05		47
1,211,010 24		745,535 24	1,025,400 00	8,237 97		48
2,966,396 48	1,485 25		2,600,000 00			49
586,342 02			1,074,942 14	73,225 00	33,283 44	50
225,526 15			200,000 00	2,293 32		51
2,645,419 70			5,002,180 00	84,597 82	31,380 77	52
3,260,297 02	258,267 68		21,493,279 32	29,681 91		53
3,771,652 70		75,649 36	12,365,525 87	34,135 33		54
760,434 91	36,571 36		1,206,813 01	70,929 00	24,106 28	55
8,414,129 42		252,667 57	44,627,190 43	50,503 24	7,997 84	56
1,000,000 00			1,010,754 46	10,107 54	107 54	57
634,138 64	270,189 69		1,070,252 74	16,077 10	2,492 48	58
705,213 81			847,368 14	28,869 52	4,004 34	59
70,000 00			70,000 00	19,444 44		60
a	1,392,035 17		2,662,703 31			61
390,355 00		1,291 73	395,112 12	39,511 21	604 89	62
12,709,106 73	12,563 46		13,005,534 07	45,647 86	198 72	63

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5.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Line No.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
64	Toledo, Saginaw & Muskegon	$3,166,470 00	$32,984 06	$3,166,470 00
65	Toledo & South Haven	254,569 52	6,955 45	254,569 52
66	Wabash (Detroit division)	e 129,928,500 00	84,101 56	6,412,482 22
67	Wisconsin Central (Gogebic & Montreal River)	1,205,565 25	89,500 02	1,205,565 25
68	Detroit Union Railroad Depot & Station Company.	2,269,893 17		2,269,893 17
	Total commercial roads	$703,439,287 80	53,772 12	$275,946,487 83
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$123,960 46	$6,886 69	$123,960 46
2	Crawford & Manistee River	57,184 76	5,718 48	57,184 76
3	Dead River	51,010 96	17,117 77	51,010 96
4	Grass Lake & Manistee River	40,000 00	3,333 33	40,000 00
5	Hecla & Torch Lake	512,451 32	68,326 84	512,451 32
6	Lake County	72,050 00	6,550 00	72,050 00
7	Manistee & Luther	354,504 51	5,539 13	354,504 51
8	North Branch & Sauble River	50,735 82	5,073 58	50,735 82
9	Quincy & Torch Lake	193,011 91	32,168 65	193,011 91
	Total ore and forest roads	$1,454,909 74	$10,283 50	$1,454,909 74
	Total all roads	$704,894,197 04	$53,306 82	$277,401,397 57

e Entire system.

6.—TRACK MILEAGE.

Line No.	Railroads.	Road owned.		Road operated.	
		Total miles.	In Michigan, miles.	Total miles.	In Michigan, miles.
1	Au Sable & Northwestern	106.00	106.00	106.00	106.00
2	Bay City Belt Line	6.29	6.29	6.29	6.29
3	Chicago, Detroit & C. G. T. Junction	59.37	59.37	59.37	59.37
4	Chicago & Grand Trunk	326.50	224.00	335.27	224.00
5	Chicago, Kalamazoo & Saginaw	44.20	44.20	44.20	44.20
6	Chicago & Northwestern	3,084.60	396.55	4,273.07	396.55
7	Chicago & West Michigan	481.50	447.04	481.50	447.04
8	Cincinnati, Jackson & Mackinaw	326.10	155.18	349.10	172.18
9	Cincinnati, Saginaw & Mackinaw	53.00	53.00	53.00	53.00
10	Cincinnati, Wabash & Michigan	204.00	33.40	250.00	33.40
11	Detroit, Bay City & Alpena	209.32	209.32	209.32	209.32
12	Detroit, Grand Haven & Milwaukee	189.00	189.00	189.00	189.00
13	Detroit, Lansing & Northern	221.57	221.57	323.68	323.68
14	Grand Rapids, Lansing & Detroit	55.54	55.54		
15	Saginaw & Western	42.57	42.57		
16	Duluth, South Shore & Atlantic	540.23	472.25	585.05	476.83
17	Flint & Pere Marquette	772.21	772.21	772.21	772.21
18	Frankfort & Southeastern	22.75	22.75	26.95	26.95
19	Grand Rapids & Indiana	425.12	382.01	583.57	444.86
20	Muskegon, Grand Rapids & Indiana	36.85	36.85		
21	Traverse City	26.00	26.00		
22	Hancock & Calumet	21.61	21.61	21.61	21.61
23	Indiana & Lake Michigan	39.29	25.05	39.29	25.05
24	Jefferson Avenue	5.62	5.62	5.62	5.62

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COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Proportion of cost for Michigan previous year.	Increased cost, 1891.	Decreased cost, 1891.	Total stock and debt	Stock and debt per mile of road.	Excess of stock and debt over reported cost per mile of road.	Line No.
$3,160,000 00	$6,470 00		$3,303,335 65	$34,409 75	$1,461 69	64
253,308 34	1,261 18		459,040 76	12,747 01	5,791 56	65
6,412,482 22			130,000,000 00	84,147 84	46 28	66
1,205,565 25			1,120,000 00	83,147 78		67
2,289,893 17			2,250,000 00			68
$270,343,271 75	$6,690,453 49	$1,087,237 41	$766,294,714 18	$58,576 89	4,804 77	
$123,960 46			$113,125 31	$6,284 74		1
57,184 76			50,000 00	5,000 00		2
51,010 96			52,010 96	8,389 86		3
40,000 00			40,000 00	3,333 33		4
510,010 47	$2,440 85		512,451 32	68,326 84		5
73,000 00		$950 00	60,000 00	5,454 54		6
354,205 49	299 02		357,750 25	5,277 35		7
50,857 33		121 51	27,334 70	2,733 70		8
180,115 75	12,896 16		181,172 58	30,195 43		9
$1,440,345 22	$15,636 03	$1,071 51	$1,373,845 12	$9,525 26		
$271,783,616 97	$6,706,089 52	$1,088,308 92	$767,668,559 30	$58,054 05	$4,747 28	

TRACK MILEAGE.—CONTINUED.

Track in Michigan.—Miles.										Line No.
Main.	Main second.	Sidings and spurs.	Estimated as a single track.	Gauge. Feet.	Gauge. Inches.	Main track, 1890.	Increase, 1891.	Decrease, 1891.	Track in joint use.	
106.00			106.00	3			106.09			1
6.29		.50	6.79	4	8½		6.29			2
59.37		25.79	85.16	4	8½	59.37				3
224.00		61.27	285.27	4	8½	224.00				4
44.20		4.00	48.20	4	8½	44.20				5
396.55		113.73	510.28	4	8½	381.55	15.00			6
447.04		167.35	614.39	4	8½	454.14		7.10		7
155.18		16.45	171.63	4	8½	155.18			17	8
53.00		28.99	81.99	4	8½	53.00				9
33.40		8.48	41.88	4	8½	33.40				10
209.32		23.66	232.98	4	8½	209.32				11
189.00		64.64	253.64	4	8½	189.00				12
221.57		77.95	299.52	4	8½	221.57			4	13
55.54		10.70	66.24	4	8½	55.54				14
42.57		7.87	50.44	4	8½	42.57				15
472.25		100.28	572.53	4	8½	473.69		1.44		16
772.21		165.27	937.48	4	8½	627.11	145.10			17
22.75		2.00	24.75	4	8½	22.75				18
382.01	2.76	100.21	484.98	4	9	375.16	6.85			19
36.85		9.12	45.97	4	9	36.85				20
26.00		3.02	29.02	4	9	26.00				21
21.61		15.00	36.61	3	0	20.36	1.25			22
25.05		2.81	27.86	4	9	25.05				23
5.62		.03	5.65	4	8½		5.62			24

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6.—TRACK MILEAGE.—CONTINUED.

Line No.	Railroads.	Road owned.		Road operated.	
		Total miles.	In Michigan, miles.	Total miles.	In Michigan, miles.
25	Lake Shore & Michigan Southern System	1,122.63	418.17	1,445.19	581.32
26	Detroit & Chicago *b*				
27	Detroit, Hillsdale & Southwestern	65.20	65.20		
28	Detroit, Monroe & Toledo *b*				
29	Fort Wayne & Jackson	97.88	44.54		
30	Kalamazoo, Allegan & Grand Rapids	58.42	58.42		
31	Kalamazoo & White Pigeon *b*				
32	Northern Central Michigan *b*				
33	Sturgis, Goshen & St. Louis *b*				
34	Lowell & Hastings	12.50	12.50	12.50	12.50
35	Manistee & Grand Rapids	23.52	23.52	23.52	23.52
36	Manistee & Northeastern	59.61	59.61	59.61	59.61
37	Manistique	48.00	48.00	48.00	48.00
38	Mason & Oceana	27.00	27.00	27.00	27.00
39	Michigan Air Line Railway	105.60	105.60	105.60	105.60
40	Michigan Central System	270.07	231.00	1,609.22	*e* 1,104.53
41	Battle Creek & Sturgis	41.00	41.00		
42	Bay City & Battle Creek	18.00	18.00		
43	Canada Southern Bridge	3.66	3.66		
44	Detroit & Bay City	146.32	146.32		
45	Grand River Valley	83.79	83.79		
46	Jackson, Lansing & Saginaw	295.10	295.10		
47	Kalamazoo & South Haven	39.50	39.50		
48	Michigan Air Line Railroad	115.16	109.10		
49	Michigan Midland & Canada	14.68	14.68		
50	Saginaw Bay & Northwestern	87.21	87.21		
51	Toledo, Canada Southern & Detroit	58.92	47.27		
52	Milwaukee, Lake Shore & Western	724.12	120.23	787.74	120.23
53	Milwaukee & Northern *d*	362.25	106.75	377.45	106.75
54	Mineral Range	17.00	17.00	17.00	17.00
55	Minneapolis, St. Paul & Sault Ste. Marie	883.65	192.01	903.46	192.35
56	Ontonagon & Brule River *d*				
57	Pontiac, Oxford & Northern	100.20	100.20	100.20	100.20
58	Saginaw, Tuscola & Huron	66.57	66.57	66.57	66.57
59	Saginaw Valley & St. Louis	35.50	35.50	45.10	45.10
60	Saginaw & Grand Rapids	3.60	3.60		
61	St. Joseph Valley	10.00	10.00	10.00	10.00
62	St. Clair Tunnel	2.19	1.01	2.19	1.01
63	Toledo, Ann Arbor & North Michigan	284.91	279.91	284.91	279.91
64	Toledo, Saginaw & Muskegon	96.00	96.00	96.00	96.00
65	Toledo & South Haven	36.60	36.60	36.60	36.60
66	Wabash *c*	339.50	79.70	339.50	79.70
67	Wisconsin Central (Gogebic & Montreal River)	13.47	13.47	13.47	13.47
68	Detroit Union R. R. Depot & Station Co.	3.34	3.34		
	Total commercial roads	13,081 86	7,133.46	15,124.93	7,164.14
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern	18.00	18.00	18.00	18.00
2	Crawford & Manistee River	10.00	10.00	10.00	10.00
3	Dead River	2.98	2.98	2.98	2.98
4	Grass Lake & Manistee River	12.00	12.00	12.00	12.00
5	Hecla & Torch Lake	7.50	7.50	7.50	7.50
6	Lake County	11.00	11.00	11.00	11.00
7	Manistee & Luther	64.00	64.00	64.00	64.00
8	North Branch & Sauble River	10.00	10.00	10.00	10.00
9	Quincy & Torch Lake	6.00	6.00	6.00	6.00
	Total ore and forest roads	141.48	141.48	141.48	141.48
	Total all roads	13,223.34	7,274.94	15,266.41	7,305.62

b Included in L. S. & M. S.
c Detroit Division only.
d O. & B. R. R. R., 46 miles, included in Milwaukee & Northern.
e Includes 5.10 miles of street railway leased.

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6.—TRACK MILEAGE.—CONTINUED.

Track in Michigan.—Miles.

Main.	Main second.	Sidings and spurs.	Estimated as a single track.	Gauge. Feet.	Gauge. Inches.	Main track, 1890.	Increase, 1891.	Decrease, 1891.	Track in joint use.	Line No.
413.17	.....	97.05	510.22	4	8½	402.62	10.55	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
65.20	.....	4.29	69.49	4	8½	65.20	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
44.54	.....	5.29	49.83	4	8½	44.54	.....	.....	.....	29
58.42	.....	10.36	68.78	4	8½	58.42	.....	.....	.....	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
12.50	.....	1.00	13.50	4	8½	12.50	.....	.....	.....	34
28.52	.....	6.65	30.17	4	8½	.....	28.52	.....	.....	35
59.61	.....	10.00	69.61	4	8½	47.00	12.61	.....	.....	36
48.00	.....	6.00	54.00	4	8½	44.75	3.25	.....	.....	37
27.00	.....	9.00	36.00	3	.....	27.00	.....	.....	.....	38
105.60	.....	8.85	114.45	4	8½	105.60	.....	.....	.....	39
221.00	138.40	172 79	532.19	4	8½	221.00	.....	.....	.....	40
41.00	.....	5.44	46.44	4	8½	41.00	.....	.....	.....	41
18.00	.....	1.78	19.78	4	8½	18.00	.....	.....	.....	42
3.66	.....	5.32	8.98	4	8½	3.66	.....	.....	.....	43
146.32	.....	52.79	199.11	4	8½	146.32	.....	.....	.....	44
83.79	.....	15.87	99.66	4	8½	83.79	.....	.....	.....	45
295.10	.....	200.72	495.82	4	8½	295.10	.....	.....	.....	46
39.50	.....	4.21	43.71	4	8½	39.50	.....	.....	.....	47
109.10	.....	20.98	130.08	4	8½	109.10	.....	.....	.....	48
14.68	.....	.81	15.49	4	8½	14.68	.....	.....	.....	49
87.21	.....	5.27	92.48	4	8½	89.31	.....	2.10	.....	50
47.27	.....	32.16	79.43	4	8½	47.27	.....	.....	.....	51
120.23	.....	28.68	148.91	4	8½	105.38	14.85	.....	.....	52
106.75	.....	24.00	130.75	4	8½	60.75	*d* 46.00	.....	.....	53
17.00	.....	9.00	26.00	3	.....	17.00	.....	.....	.....	54
192.01	.....	22.15	214.16	4	8½	192.01	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	46.00	.....	46.00	.....	56
100.20	.....	7.19	107.39	4	8½	100.20	.....	.....	.....	57
66.57	.....	14.39	80.96	4	8½	64.38	2.19	.....	.....	58
35.50	.....	4.22	39.72	4	8½	35.50	.....	.....	6.00	59
3.60	.....	.....	3.60	4	8½	3.60	.....	.....	.....	60
10.00	.....	.50	10.50	4	8½	10.00	.....	.....	.....	61
1.01	.....	.40	1.41	4	8½	.....	1.01	.....	.....	62
279 91	.....	39.99	319.90	4	8½	285.56	.....	5.65	.....	63
96.00	.....	9.36	105.36	4	8½	96.00	.....	.....	.....	64
36 60	.....	1.20	37.80	3	.....	36.60	.....	.....	.....	65
79.70	.....	30.90	110.60	4	8½	79.70	.....	.....	3.50	66
13.47	.....	7.76	21.23	4	8½	14.60	.....	1.13	.....	67
3.34	.....	3.50	6.84	4	8½	3.34	.....	.....	.....	68
7,138.46	141.16	1,888.99	9,168.61	.....	.....	6,796.79	400.09	63.42	30.50	....
18.00	.....	.....	18.00	3	.....	18.00	.....	.....	.....	1
10.00	.....	3.00	13.00	3	.....	10.00	.....	.....	.....	2
2.98	.....	.17	3.15	4	8½	.....	2.98	.....	.....	3
12.00	.....	1.50	13.50	3	.....	12.00	.....	.....	.....	4
7.50	.....	.....	7.50	4	1	7.50	.....	.....	.....	5
11.00	.....	.....	11.00	4	8½	11.00	.....	.....	.....	6
64.00	.....	.....	64.00	3	.....	64.00	.....	.....	.....	7
10.00	.....	.....	10.00	3	.....	10.00	.....	.....	.....	8
6.00	.....	.....	6.00	3	.....	6.00	.....	.....	.....	9
141.48	.....	4.67	146.15	.....	.....	138.50	2.98	.....	.....	....
7,274.94	141.16	1,893.66	9,309.76	.....	.....	6,935.29	403.07	63.42	30.50	....

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7—TRAFFIC EARNINGS.

Line number.	Railroads.	Passenger	
		Passenger fares.	Express and baggage.
1	Au Sable & Northwestern	$4,245 70	
2	Chicago, Detroit & Canada Grand Trunk Junction	148,308 06	$10,735 66
3	Chicago & Grand Trunk	1,104,937 90	43,014 92
4	Chicago, Kalamazoo & Saginaw	22,658 44	708 71
5	Chicago & Northwestern	7,126,657 59	413,490 23
6	Chicago & West Michigan	586,963 25	24,377 13
7	Cincinnati, Jackson & Mackinaw	176,059 49	34,599 96
8	Cincinnati, Saginaw & Mackinaw	56,220 02	1,155 60
9	Cincinnati, Wabash & Michigan	264,252 88	13,717 05
10	Detroit, Bay City & Alpena	81,913 79	1,911 14
11	Detroit, Grand Haven & Milwaukee	471,941 43	24,373 58
12	Detroit, Lansing & Northern	537,963 07	16,691 41
13	Grand Rapids, Lansing & Detroit		
14	Saginaw & Western		
15	Duluth, South Shore & Atlantic	629,837 82	27,066 72
16	Flint & Pere Marquette	778,608 71	37,711 82
17	Frankfort & Southeastern	11,138 88	375 28
18	Grand Rapids & Indiana	845,292 20	45,468 83
19	Muskegon, Grand Rapids & Indiana		
20	Traverse City		
21	Hancock & Calumet	17,964 98	242 01
22	Indiana & Lake Michigan	8,914 13	3,464 61
23	Jefferson Avenue	1,973 55	
24	Lake Shore & Michigan Southern System	5,376,506 98	544,270 04
25	Detroit, Hillsdale & Southwestern		
26	Detroit, Monroe & Toledo		
27	Fort Wayne & Jackson		
28	Kalamazoo, Allegan & Grand Rapids		
29	Kalamazoo & White Pigeon		
30	Northern Central Michigan		
31	Lowell & Hastings	3,928 80	
32	Manistee & Grand Rapids		
33	Manistee & Northeastern	35,504 91	823 25
34	Manistique	2,014 94	
35	Mason & Oceana	4,400 68	
36	Michigan Air Line Railway	87,235 85	2,501 96
37	Michigan Central System	4,548,904 66	416,816 55
38	Battle Creek & Sturgis		
39	Bay City & Battle Creek		
40	Canada Southern Bridge		
41	Detroit & Bay City		
42	Grand River Valley		
43	Jackson, Lansing & Saginaw		
44	Kalamazoo & South Haven		
45	Michigan Air Line Railroad		
46	Michigan Midland & Canada		
47	Saginaw Bay & Northwestern		
48	Toledo, Canada Southern & Detroit		
49	Milwaukee, Lake Shore & Western	620,489 16	53,293 24
50	Milwaukee & Northern	375,674 68	22,686 18
51	Mineral Range	38,624 41	1,186 23
52	Minneapolis, St. Paul & Sault Ste. Marie	491,499 59	15,933 96
53	Pontiac, Oxford & Northern	38,967 85	2,798 26
54	Saginaw, Tuscola & Huron	44,116 80	610 69
55	Saginaw Valley & St. Louis	49,320 24	881 65
56	Saginaw & Grand Rapids		
57	St. Clair Tunnel		
58	St. Joseph Valley	1,002 79	487 82
59	Toledo, Ann Arbor & North Michigan	258,892 26	16,500 00
60	Toledo, Saginaw & Muskegon	32,284 58	929 45

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TRAFFIC EARNINGS.—CONTINUED.

Department.			Freight Department.			Total traffic earnings.	Line number.
Mails.	Other sources.	Total.	Freights.	Other sources.	Total.		
$116 68	.....	$4,262 38	$76,211 15	.....	$76,211 15	$80,573 53	1
9,374 68	.....	168,415 40	94,457 91	.....	94,457 91	262,873 31	2
40,614 11	.....	1,188,556 98	2,675,668 74	.....	2,675,668 74	3,864,225 67	3
1,905 96	.....	25,268 11	25,929 76	.....	25,929 76	51,197 87	4
630,697 73	.....	8,175,845 55	20,967,257 99	.....	20,967,257 99	29,143,103 54	5
40,061 16	$1,200 00	651,701 59	1,104,367 68	$1,483 43	1,105,851 11	1,757,552 70	6
21,313 92	.....	281,973 37	474,870 91	.....	474,870 91	706,844 28	7
2,245 05	.....	59,620 67	124,679 45	.....	124,679 45	184,300 12	8
13,742 84	.....	291,712 77	448,758 30	4,419 34	453,177 64	744,890 41	9
11,165 16	10,542 69	105,585 78	312,138 48	.....	312,138 48	417,674 26	10
26,651 77	.....	522,867 08	668,004 58	.....	668,004 58	1,190,871 66	11
36,310 45	.....	580,984 98	658,731 01	1,538 56	660,269 57	1,241,254 50	12
.....	.....	.....	.....	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	.....	14
29,252 54	2,004 00	688,160 58	1,431,121 91	7,448 15	1,438,570 06	2,126,730 64	15
53,460 22	22,808 93	892,589 68	1,652,168 75	.....	1,652,168 75	2,544,758 43	16
1,068 76	.....	12,582 32	21,372 23	.....	21,372 23	33,954 55	17
47,283 81	19,061 15	957,125 99	1,619,475 56	24,195 02	1,643,670 58	2,600,796 57	18
.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	20
818 80	.....	19,025 74	156,526 14	.....	156,526 14	175,551 88	21
3,651 46	.....	16,080 20	17,336 01	.....	17,336 01	33,416 21	22
.....	.....	1,973 85	.....	.....	.....	1,973 85	23
1,341,032 07	.....	7,261,911 09	13,628,708 90	264,984 89	13,893,638 79	21,155,549 88	24
.....	.....	.....	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	30
570 00	.....	4,498 80	5,836 65	219 43	6,056 08	10,554 88	31
.....	.....	.....	17,449 81	1,402 32	18,863 13	18,863 13	32
2,578 41	.....	38,906 57	75,811 14	.....	75,811 14	114,717 71	33
.....	.....	2,014 94	121,527 81	.....	121,527 81	123,542 75	34
1,246 16	.....	5,646 54	37,648 77	.....	37,648 77	43,295 61	35
7,232 52	.....	47,020 33	107,290 19	.....	107,290 19	154,310 52	36
280,816 54	.....	5,226,627 75	9,876,306 82	.....	9,876,306 82	15,102,934 57	37
.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	39
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.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	48
62,788 61	.....	736,566 01	2,794,176 58	3,361 28	2,797,537 86	3,534,103 87	49
41,831 09	2,571 12	442,763 07	1,303,266 15	.....	1,303,266 15	1,746,029 22	50
978 60	.....	40,789 24	101,527 24	.....	101,527 24	142,316 48	51
60,614 98	32,333 88	602,351 86	*b* 1,933,400 06	2,012 19	1,935,412 25	2,537,794 11	52
5,780 12	.....	47,546 23	59,559 79	.....	59,559 79	107,106 02	53
2,891 47	.....	47,618 96	58,617 63	.....	58,617 63	106,236 59	54
3,300 84	.....	54,002 78	39,151 14	106 12	39,257 26	93,259 99	55
.....	.....	.....	.....	.....	.....	.....	56
.....	*c* 2,738 00	*c* 2,738 00	.....	29,572 00	*d* 29,572 00	32,310 00	57
434 38	.....	1,924 99	2,703 76	.....	2,703 76	4,628 75	58
26,764 92	.....	302,157 18	603,401 47	32,041 15	635,442 62	937,599 80	59
4,634 76	.....	37,838 79	77,386 34	.....	77,386 34	115,225 13	60

b Includes $90,141.80 freight on company's material.
c Tolls on passenger cars.
d Tolls on freight cars.

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7.—TRAFFIC EARNINGS.—CONTINUED.

Line number.	Railroads.	Passenger	
		Passenger fares.	Express and baggage.
61	Toledo & South Haven	$13,837 50	$1,091 18
62	Wabash (Detroit division)	562,454 82	12,260 55
63	Wisconsin Central (Gogebic & Montreal River)	4,607 25	217 83
64	Detroit Union Railroad Depot & Station Company		
	Total commercial roads	$25,409,118 84	$1,797,388 80
	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern	$56 29	
2	Crawford & Manistee River		
3	Grass Lake & Manistee River		
4	Hecla & Torch Lake		
5	Lake County		
6	Manistee & Luther	471 06	
7	North Branch & Sauble River		
8	Quincy & Torch Lake		
	Total ore and forest roads	$527 35	
	Total all roads	$25,409,645 69	$1,797,388 80

8.—GROSS INCOME.

Line No.	Railroads.	Traffic earnings (Table 7).	Operating receipts other than for traffic earnings.	Total receipts from operation.
1	Au Sable & Northwestern	$80,573 53		$80,573 53
2	Chicago, Detroit & Canada Grand Trunk Junction	262,873 31	$1,305 83	264,179 14
3	Chicago & Grand Trunk	3,864,225 67	2,444 02	3,866,669 69
4	Chicago, Kalamazoo & Saginaw	51,197 57	429 20	51,627 07
5	Chicago & Northwestern	29,143,108 54	252,687 74	29,395,791 28
6	Chicago & West Michigan	1,757,552 70		1,757,552 70
7	Cincinnati, Jackson & Mackinaw	706,844 28	22,137 06	728,981 34
8	Cincinnati, Saginaw & Mackinaw	184,300 12	430 93	184,731 05
9	Cincinnati, Wabash & Michigan	744,890 41	450 00	745,340 41
10	Detroit, Bay City & Alpena	417,674 26		417,674 26
11	Detroit, Grand Haven & Milwaukee	1,190,871 66	10,126 57	1,200,998 23
12	Detroit, Lansing & Northern	1,241,254 50	12,845 24	1,254,099 74
13	Grand Rapids, Lansing & Detroit			
14	Saginaw & Western			
15	Duluth, South Shore & Atlantic	2,126,730 64	21,656 86	2,148,387 50
16	Flint & Pere Marquette	2,544,758 42		2,544,758 42
17	Frankfort & Southeastern	33,954 55	195 08	34,149 63
18	Grand Rapids & Indiana	2,600,796 57	23,820 92	2,624,617 49
19	Muskegon, Grand Rapids & Indiana			
20	Traverse City			
21	Hancock & Calumet	175,551 88	374 00	175,925 88
22	Indiana & Lake Michigan	33,366 21		33,366 21
23	Jefferson Avenue	1,973 85		1,973 85

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TRAFFIC EARNINGS—CONTINUED.

Department.			Freight Department.			Total traffic earnings.	Line number.
Mails.	Other sources.	Total.	Freights.	Other sources.	Total.		
$1,756 08		$16,684 76	$10,353 23		$10,353 23	$27,037 99	61
17,745 71	$7,851 76	601,713 34	1,573,480 42	$31,303 79	1,604,734 21	2,206,446 55	62
297 48		5,122 56	17,891 73	725 20	18,616 93	23,739 49	63
							64
$2,813,067 79	$101,231 08	$30,120,805 96	$364,974,527 19	$404,762 87	$365,379,290 06	$395,500,096 02	
		$56 29	$11,503 13		$11,503 13	$11,559 42	1
			13,183 96		13,183 96	13,183 96	2
			8,120 26		8,120 26	8,120 26	3
			100,427 76		100,427 76	100,427 76	4
			14,421 95		14,421 95	14,421 95	5
		471 06	104,722 90		104,722 90	105,193 96	6
			9,074 56		9,074 56	9,074 56	7
			15,508 68		15,508 68	15,508 68	8
		$527 35	$277,263 20		$277,263 20	$277,790 55	
$2,813,067 79	$101,231 08	$30,121,333 31	$365,251,790 39	$404,762 87	$365,656,553 26	$395,777,886 57	

GROSS INCOME.—CONTINUED.

Income from sources other than operating.	Total income 1891.	Proportion for Michigan.	Proportion for Michigan, 1890.	Increase of income, 1891.	Decrease of income, 1891.	Line No.
	$90,573 53	$90,573 53		$90,573 53		1
	264,179 14	264,179 14	$250,569 03	13,610 11		2
	3,866,669 69	2,583,392 00	2,562,584 23	20,807 77		3
	51,627 07	51,427 07	47,191 31	4,435 76		4
	29,395,791 28	3,002,798 28	3,361,268 62		$358,470 34	5
	1,757,552 70	1,631,768 14	1,499,394 77	132,373 37		6
	728,981 34	359,541 62	325,531 85	34,009 77		7
	184,731 05	184,731 05	187,713 54		2,982 49	8
	745,340 41	99,577 48	122,096 26		22,518 78	9
	417,674 26	417,674 26	523,038 42		105,364 16	10
	1,200,998 23	1,200,998 23	1,138,213 14	62,785 09		11
	1,254,099 74	1,254,099 74	1,219,662 69	34,437 05		12
						13
						14
$11,730 74	2,160,118 24	1,762,718 87	1,900,152 15		137,433 28	15
105,476 26	2,650,234 69	2,650,234 69	2,693,474 35		43,239 66	16
	34,149 63	34,149 63	32,129 12	2,020 51		17
4,587 54	2,629,155 03	2,335,610 80	2,496,346 85		160,736 05	18
						19
						20
	175,925 88	175,925 88	139,901 42	36,024 46		21
	33,866 21	21,273 18	5,233 16	16,040 02		22
	1,973 85	1,973 85		1,973 85		23

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8.—GROSS INCOME.—CONTINUED.

Line No.	Railroads.	Traffic earnings, (Table 7).	Operating receipts other than for traffic earnings.	Total receipts from operation.
24	Lake Shore & Michigan Southern System	$21,155,549 88	$275,886 80	$21,431,386 68
25	Detroit & Chicago			
26	Detroit, Hillsdale & Southwestern			
27	Detroit, Monroe & Toledo			
28	Fort Wayne & Jackson			
29	Kalamazoo, Allegan & Grand Rapids			
30	Kalamazoo & White Pigeon			
31	Northern Central Michigan			
32	Sturgis, Goshen & St. Louis			
33	Lowell & Hastings	10,554 88		10,554 88
34	Manistee & Grand Rapids	18,862 13		18,862 13
35	Manistee & Northeastern	114,717 71	323 38	115,041 09
36	Manistique	123,542 75		123,542 75
37	Mason & Oceana	43,295 61		43,295 61
38	Michigan Air Line Railway	154,310 52		154,310 52
39	Michigan Central System	15,102,934 57	60,025 60	15,162,960 17
40	Battle Creek & Sturgis			
41	Bay City & Battle Creek			
42	Canada Southern Bridge			
43	Detroit & Bay City			
44	Grand River Valley			
45	Jackson, Lansing & Saginaw			
46	Kalamazoo & South Haven			
47	Michigan Air Line Railroad			
48	Michigan Midland & Canada			
49	Saginaw Bay & Northwestern			
50	Toledo, Canada Southern & Detroit			
51	Milwaukee, Lake Shore & Western	3,534,103 87		3,534,103 87
52	Milwaukee & Northern	1,746,029 22		1,746,029 22
53	Mineral Range	142,316 48	4,188 15	146,504 63
54	Minneapolis, St. Paul & Sault Ste. Marie	2,537,794 11	49,027 07	2,586,821 18
55	Ontonagon & Brule River	b		
56	Pontiac, Oxford & Northern	107,106 02	172 13	107,278 15
57	Saginaw, Tuscola & Huron	106,236 59	545 13	106,781 72
58	Saginaw Valley & St. Louis	93,259 99	335 78	93,595 77
59	Saginaw & Grand Rapids			
60	St. Clair Tunnel	32,310 00		32,310 00
61	St. Joseph Valley	4,628 75		4,628 75
62	Toledo, Ann Arbor & North Michigan	937,599 80	39,655 83	977,255 63
63	Toledo, Saginaw & Muskegon	115,225 13		115,225 13
64	Toledo & South Haven	27,087 99		27,087 99
65	Wabash (Detroit division)	2,206,446 55		2,206,446 55
66	Wisconsin Central (Gogebic & Montreal River)	23,739 49	14 71	23,754 20
67	Detroit Union Railroad Depot & Station Company		125,206 81	125,206 81
	Total commercial roads	$95,500,096 02	$904,234 84	$96,404,330 86
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$11,559 42		$11,559 42
2	Crawford & Manistee River	13,183 96		13,183 96
3	Grass Lake & Manistee River	8,120 26		8,120 26
4	Hecla & Torch Lake	100,427 76		100,427 76
5	Lake County	14,421 95		14,421 95
6	Manistee & Luther	105,193 96		105,193 96
7	North Branch & Sauble River	9,074 56		9,074 56
8	Quincy & Torch Lake	15,808 68		15,808 68
	Total ore and forest roads	$277,790 55		$277,790 55
	Total all roads	$95,777,886 57	$904,234 84	$96,682,121 41

b Included in Milwaukee & Northern.

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GROSS INCOME.—CONTINUED.

Income from sources other than operating.	Total income 1891.	Proportion for Michigan.	Proportion for Michigan, 1890.	Increase of income, 1891.	Decrease of income, 1891.	Line No.
$455,623 13	$21,887,009 81	$5,122,936 43	$5,612,215 48		$489,279 05	24
						25
						26
						27
						28
						29
						30
						31
						32
	10,554 88	10,554 88	5,432 96	$5,121 92		33
	18,862 13	18,862 13		18,862 13		34
	115,041 09	115,041 09	90,766 06	24,275 03		35
	123,542 75	123,542 75	109,427 05	14,115 70		36
	43,295 61	43,295 61	32,621 05	10,674 56		37
	154,310 52	154,310 52	159,848 90		5,538 38	38
58,878 46	15,221,838 68	8,766,596 06	8,425,357 81	341,238 25		39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
4,750 21	3,538,854 08	533,968 60	628,130 00		94,261 40	51
1,746,029 22	1,746,029 22	360,077 74	290,633 51	69,443 93		52
146,504 63	146,504 63	146,504 63	125,463 48	21,036 15		53
2,586,821 18	2,586,821 18	533,690 71	480,028 82	53,656 89		54
			21,574 19		21,574 19	55
	107,278 15	107,278 15	107,020 12	258 03		56
	106,781 72	106,781 72	102,583 40	4,198 32		57
1,396 00	94,991 77	94,991 77	104,886 20		9,894 43	58
						59
	32,310 00	16,155 00		16,155 00		60
	4,628 75	4,628 75	5,001 68		372 93	61
	977,355 68	960,105 38	1,107,811 46		147,706 08	62
	115,225 13	115,225 13	111,272 38	3,952 75		63
	27,037 99	27,037 99	26,641 07	396 92		64
	2,206,146 55	517,978 47	451,736 94	66,241 53		65
	23,754 20	23,754 20	44,218 02		20,463 82	66
	125,206 51	125,206 81	116,421 20	8,785 61		67
$642,392 34	$97,046,723 20	$36,141,261 96	$36,673,592 99	$1,087,504 01	$1,619,835 04	
	$11,559 42	$11,559 42	$9,562 75	$1,996 67		1
	13,183 96	13,183 96	11,962 24	1,221 72		2
	8,120 26	8,120 26	13,173 78		$5,053 52	3
	100,427 76	100,427 76	98,906 61	1,521 15		4
	14,421 95	14,421 95	16,057 14		1,635 19	5
	105,193 96	105,193 96	137,964 53		32,770 57	6
	9,074 56	9,074 56	12,296 61		3,222 05	7
	15,808 68	15,808 68	19,915 20		4,106 52	8
	$277,790 55	$277,790 55	$319,838 86	$4,739 54	$46,787 85	
$642,392 34	$97,324,513 75	$36,419,052 51	$36,993,431 85	$1,092,243 55	$1,666,622 89	

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9.—EXPENSES.

Line No.	Railroads.	Maintenance of way and buildings.	Maintenance of motive power and cars.	Conducting transportation.
1	Au Sable & Northwestern	$5,406 77	$8,176 68	$62,254 18
2	Chicago, Detroit & Canada Grand Trunk Junction	49,560 04	68,557 99	123,862 85
3	Chicago & Grand Trunk	359,435 94	425,421 75	1,722,254 91
4	Chicago, Kalamazoo & Saginaw	8,030 32	3,122 89	15,794 10
5	Chicago & Northwestern	3,531,378 57	3,103,876 98	10,145,605 28
6	Chicago & West Michigan	382,073 78	173,749 02	576,219 93
7	Cincinnati, Jackson & Mackinaw	125,073 55	102,988 15	247,005 91
8	Cincinnati, Saginaw & Mackinaw	19,551 21	21,786 25	92,472 83
9	Cincinnati, Wabash & Michigan	112,062 38	63,476 00	248,261 16
10	Detroit, Bay City & Alpena	54,587 31	19,051 76	175,994 53
11	Detroit, Grand Haven & Milwaukee	152,299 13	124,409 75	506,505 99
12	Detroit, Lansing & Northern	196,686 30	123,644 82	391,560 45
13	Grand Rapids, Lansing & Detroit			
14	Saginaw & Western			
15	Duluth, South Shore & Atlantic	223,961 12	152,891 05	716,110 81
16	Flint & Pere Marquette	278,'85 33	347,197 14	997,990 91
17	Frankfort & Southeastern	5,069 55	709 83	10,250 91
18	Grand Rapids & Indiana	398,952 64	371,729 61	871,311 92
19	Muskegon, Grand Rapids & Indiana			
20	Traverse City			
21	Hancock & Calumet	18,771 08	21,182 95	53,128 74
22	Indiana & Lake Michigan	14,863 59	4,453 95	21,302 44
23	Jefferson Avenue	412 90	10 10	1,870 75
24	Lake Shore & Michigan Southern System	3,205,746 86	2,681,249 22	7,236,821 18
25	Detroit & Chicago			
26	Detroit, Hillsdale & Southwestern			
27	Detroit, Monroe & Toledo			
28	Fort Wayne & Jackson			
29	Kalamazoo, Allegan & Grand Rapids			
30	Kalamazoo & White Pigeon			
31	Northern Central Michigan			
32	Sturgis, Goshen & St. Louis			
33	Lowell & Hastings	1,417 15	164 00	7,511 88
34	Manistee & Grand Rapids			7,110 29
35	Manistee & Northeastern	15,447 06	12,672 25	42,374 81
36	Manistique	11,843 17	10,017 23	53,319 15
37	Mason & Oceana	10,862 20	10,300 00	19,546 00
38	Michigan Air Line Railway	55,287 52	10,933 78	64,648 10
39	Michigan Central System	2,124,907 25	2,063,911 16	5,779,451 43
40	Battle Creek & Sturgis			
41	Bay City & Battle Creek			
42	Canada Southern Bridge			
43	Detroit & Bay City			
44	Grand River Valley			
45	Jackson, Lansing & Saginaw			
46	Kalamazoo & South Haven			
47	Michigan Air Line Railroad			
48	Michigan Midland & Canada			
49	Saginaw Bay & Northwestern			
50	Toledo, Canada Southern & Detroit			
51	Milwaukee, Lake Shore & Western	432,456 25	253,517 71	1,165,211 77
52	Milwaukee & Northern	187,271 19	154,607 05	547,487 71
53	Mineral Range	19,553 47	9,399 71	36,309 95
54	Minneapolis, St. Paul & Sault Ste. Marie	217,716 98	270,055 92	808,899 15
55	Pontiac, Oxford & Northern	29,479 34	9,912 08	29,885 57
56	Saginaw, Tuscola & Huron	22,106 37	9,498 32	35,333 84
57	Saginaw Valley & St. Louis	25,832 98	3,625 41	80,580 28
58	Saginaw & Grand Rapids			
59	St. Clair Tunnel			12,109 26
60	St. Joseph Valley	1,656 89	96 60	3,029 96
61	Toledo, Ann Arbor & North Michigan	98,998 84	90,326 21	304,516 12

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EXPENSES.—CONTINUED.

General expenses, including taxes.	Total expenses and taxes.	Proportion of expenses and taxes for Michigan.	Same for Michigan previous year.	Increase, 1891.	Decrease, 1891.	Line No.
$1,466 68	$77,304 31	$77,304 31		$77,304 31		1
14,508 81	256,484 19	256,484 19	$241,727 08	14,757 11		2
452,500 37	2,959,612 97	1,955,093 68	1,930,338 12	24,755 56		3
5,892 96	32,840 29	32,840 29	32,043 24	797 05		4
2,341,774 14	19,122,634 92	1,774,621 26	1,681,189 01	93,432 25		5
149,756 97	1,231,709 70	1,143,642 24	962,446 41	181,195 83		6
115,043 91	590,111 52	291,049 49	268,522 94	27,526 55		7
10,024 08	143,863 82	143,863 82	20,131 83	123,731 99		8
72,904 38	496,728 87	66,362 13	81,102 54		$14,740 41	9
35,211 49	284,855 09	284,855 09	305,643 00		20,787 91	10
112,011 43	894,226 29	894,226 29	865,332 45	28,893 84		11
166,761 74	878,653 31	878,653 31	826,865 62	51,787 69		12
						13
						14
224,403 51	1,317,386 49	1,073,701 95	1,172,455 19		98,753 24	15
265,748 42	1,789,021 80	1,789,021 80	1,812,308 78		23,286 98	16
4,695 38	20,725 66	20,725 66	20,718 01	7 65		17
321,650 68	1,963,644 80	1,654,905 30	1,681,211 68		26,306 38	18
						19
						20
14,479 72	107,562 49	107,562 49	86,826 04	20,736 45		21
681 77	41,301 75	26,332 63	16,629 04	9,703 59		22
458 60	2,752 35	2,752 35		2,752 35		23
1,508,358 12	14,632,675 38	3,535,402 74	3,548,214 45		12,811 71	24
						25
						26
						27
						28
						29
						30
						31
						32
217 24	9,310 27	9,310 27	6,547 68	2,762 59		33
	7,110 29	7,110 29		7,110 29		34
9,557 23	80,051 35	80,051 35	68,041 09	12,010 26		35
4,085 90	79,264 45	79,264 45	81,559 89		2,295 44	36
865 91	41,574 11	41,574 11	31,442 60	10,131 51		37
4,475 28	135,294 63	135,294 63	131,294 25	4,000 38		38
1,119,269 66	11,107,569 50	6,613,174 52	6,553,800 87	59,373 65		39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
386,460 99	2,217,646 72	256,946 17	315,956 08		59,009 91	51
153,889 12	1,043,255 07	289,609 07	200,653 52	88,955 55		52
12,769 41	78,032 54	78,032 54	65,415 88	12,616 66		53
304,208 09	1,609,880 09	475,329 15	431,168 79	44,160 36		54
12,909 17	82,136 16	82,136 16	92,227,02		10,090 86	55
12,006 85	78,945 38	78,945 38	75,824 59	3,120 79		56
11,123 77	71,461 44	71,461 44	55,500 71	15,960 73		57
						58
	12,109 26	6,054 63		6,054 63		59
268 83	5,052 28	5,052 28	7,500 24		2,447 96	60
93,189 99	587,026 17	576,724 22	703,267 84		126,543 62	61

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9.—EXPENSES.—CONTINUED.

Line No.	Railroads.	Maintenance of way and buildings.	Maintenance of motive power and cars.	Conducting transportation.
62	Toledo, Saginaw & Muskegon	$28,289 27	$14,193 58	$46,715 51
63	Toledo & South Haven	5,652 44	2,258 61	9,708 10
64	Wabash *b*	282,452 61	264,752 08	849,515 88
65	Wisconsin Central (Gogebic & Montreal River)	3,310 55	2,904 44	10,364 18
66	Detroit Union Railroad Depot & Station Company			
	Total commercial roads	$12,666,563 84	$10,990,851 92	$34,079,483 73
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern	$2,401 50	$3,359 60	$3,275 69
2	Crawford & Manistee River	7,053 76	1,463 71	3,954 31
3	Grass Lake & Manistee River	3,644 17	877 64	2,636 04
4	Hecla & Torch Lake	21,298 44		76,467 12
5	Lake County	2,105 72	1,722 63	7,896 45
6	Manistee & Luther	8,525 93	19,533 80	30,487 33
7	North Branch & Sauble River			
8	Quincy & Torch Lake	3,716 13	1,525 75	10,114 30
	Total ore and forest roads	$48,740 65	$27,983 13	$134,831 24
	Total all roads	$12,715,304 49	$10,958,735 05	$34,214,363 97

b Detroit division—based on mileage proportion.

10.—ANALYSIS OF EARNINGS AND EXPENSES.

Line Number.	Railroads.	Miles of road operated.	Traffic		
			Total.	Per train	
				Passenger.	Freight.
1	Au Sable & Northwestern	106.00	$80,573 53	$0 43	$0 02.18
2	Bay City Belt Line	6.29			
3	Chicago, Detroit & C. G. T. Junction	59.37	262,878 31	60	0 34
4	Chicago & Grand Trunk	335.27	3,864,225 67	84	1 20
5	Chicago, Kalamazoo & Saginaw	44.20	51,197 87		
6	Chicago & Northwestern	4,278.07	29,143,103 54	1 08.64	1 42.10
7	Chicago & West Michigan	481.50	1,757,552 70	76	1 47
8	Cincinnati, Jackson & Mackinaw	349.10	706,844 28	55	1 10
9	Cincinnati, Saginaw & Mackinaw	53.00	184,300 12	47	2 41
10	Cincinnati, Wabash & Michigan	250 00	744,890 41	1 00.90	1 32
11	Detroit, Bay City & Alpena	209.32	417,674 26	1 67	65
12	Detroit, Grand Haven & Milwaukee	189.00	1,190,871 66	99	1 51
13	Detroit, Lansing & Northern	323.68	1,241,254 50	83	1 45
14	Grand Rapids, Lansing & Detroit				
15	Saginaw & Western				
16	Duluth, South Shore & Atlantic	585.05	3,126,730 64	93.33	1 68.17
17	Flint & Pere Marquette	772.21	2,544,758 43	78	1 80
18	Frankfort & Southeastern	26.95	33,954 55	56.04	84.14
19	Grand Rapids & Indiana	583.57	2,900,796 57	91	1 52
20	Muskegon, Grand Rapids & Indiana				
21	Traverse City				
22	Hancock & Calumet	21.61	175,551 88	70	1 57
23	Indiana & Lake Michigan	39.29	33,366 21	44	63
24	Jefferson Avenue	5.62	1,973 85		

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EXPENSES.—CONTINUED.

General expenses, including taxes.	Total expenses and taxes.	Proportion of expenses and taxes for Michigan.	Same for Michigan previous year.	Increase, 1891.	Decrease, 1891.	Line No.
$5,911 75	$95,110 11	$95,110 11	$91,214 33	$3,895 78		62
2,316 23	19,940 38	19,940 38	19,506 56	433 82		63
248,854 78	1,645,575 85	986,310 38	937,399 70	48,910 68		64
2,464 67	19,043 84	19,043 84	56,053 42		$37,009 58	65
27,573 94	27,573,94	27,573 94	49,069 99		21,496 05	66
$3,111,245 84	$65,788,144 33	$25,443,450 28	$24,922,150 48	$976,879 85	$455,580 00	
$191 25	$9,128 04	$9,128 04	$6,055 89	$3,072 15		1
589 24	13,061 02	13,061 02	11,852 28	1,208 74		2
1,412 41	8,120 26	8,120 26	15,245 04		$7,124 78	3
2,667 20	100,427 76	100,427 76	98,906 61	1,521 15		4
8,773 15	15,497 95	15,497 95	14,857 14	640 81		5
18,191 84	76,738 90	76,738 90	83,239 77		6,500 87	6
4,000 00	4,000 00	4,000 00	8,092 47		4,092 47	7
398 28	15,754 46	15,754 46	7,954 66	7,799 80		8
$31,223 87	$242,728 39	$242,728 39	$246,208 86	$14,242 65	$17,718 12	
$3,142,469 21	$66,030,872 72	$25,686,178 67	$25,168,359 29	$991,122 50	$473,298 12	

ANALYSIS OF EARNINGS AND EXPENSES.—CONTINUED.

Earnings.		Operating expenses.				Net per mile operated.		Net earnings per train mile.	Deficit per train mile.	Line Number.
mile. Total.	Per mile of road operated.	Total.	Per mile of road operated.	Per train mile.	Percentage of earnings.	Surplus.	Deficit.			
$1 76	$760 12	$77,304 31	$729 28	$1 71	96.	$0 80 84		$0 05		1
										2
94	4,427 71	256,484 19	4,320 10	92	97.08	129 61		02.5		3
1 06	11,525 71	2,959,612 97	8,827 55	81	76.54	2,701 44		25		4
	1,158 32	32,840 29	743 00		63.60	425 03				5
1 31.93	6,820 18	19,123,584 92	4,475 15	85.82	65.05	2,404 16		46.11		6
1 18	3,647 46	1,231,799 70	2,558 25	83	70.09	1,091 91		35		7
88	2,024 73	590,111 52	1,690 38	69	80.95	397 79		16		8
1 04	3,477 36	143,863 82	2,714 41	81	77.88	771 08		23		9
1 16	2,979 56	496,723 87	1,986 89	78	66.65	994 46		39		10
77	1,995 88	234,855 09	1,360 56	58	68.20	634 53		24		11
1 28	6,300 91	894,226 29	4,731 36	92	74.46	1,623 13		32		12
1 06	3,834 82	878,653 31	2,714 57	76	70.06	1,159 93		38		13
										14
										15
1 33.45	3,635 12	1,317,386 49	2,251 75	82.66	61	1,410 44		53		16
1 05	3,295 43	1,789,021 80	2,316 75	74.	67.50	978 67		31		17
70.96	1,374 67	20,725 66	839 09	43.31	60.69	543 48		28.05		18
1 23	5,194 08	1,863,644 80	3,742 48	87	71.006	1,528 15		36		19
										20
										21
1 39	8,123 64	107,562 49	4,977 44	85	61	3,163 51		54		22
53	849 23	41,301 75	1,051 20	65	123.78		$201 97		$0.12	23
	351 22	2,752 35	489 74		139		138 52			24

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10.—ANALYSIS OF EARNINGS AND EXPENSES.—CONTINUED.

Line Number.	Railroads.	Miles of road operated.	Traffic		
			Total.	Per train	
				Passenger.	Freight.
25	Lake Shore & Michigan Southern System	1,445.19	$21,155,549 88	$1 56.65	$1 75.40
26	Detroit & Chicago				
27	Detroit, Hillsdale & Southwestern				
28	Detroit, Monroe & Toledo				
29	Fort Wayne & Jackson				
30	Kalamazoo, Allegan & Grand Rapids				
31	Kalamazoo & White Pigeon				
32	Northern Central Michigan				
33	Sturgis, Goshen & St. Louis				
34	Lowell & Hastings	12.50	10,554 88	17	24
35	Manistee & Grand Rapids	23.52	18,262 13		2 83
36	Manistee & Northeastern	59.61	114,717 71	53	92
37	Manistique	48.00	128,542 75	04	2 38
38	Mason & Oceana	27.00	43,295 61	31	94
39	Michigan Air Line Railway	105.60	154,310 52	25	56
40	Michigan Central System	1,609.22	15,102,934 57	1 15	1 52
41	Battle Creek & Sturgis				
42	Bay City & Battle Creek				
43	Canada Southern Bridge				
44	Detroit & Bay City				
45	Grand River Valley				
46	Jackson, Lansing & Saginaw				
47	Kalamazoo & South Haven				
48	Michigan Air Line R. R.				
49	Michigan Midland & Canada				
50	Saginaw Bay & Northwestern				
51	Toledo, Canada Southern & Detroit				
52	Milwaukee, Lake Shore & Western	787.74	3,584,103 87	82.90	1 81
53	Milwaukee & Northern	377.45	1,746,029 22	80	1 82
54	Mineral Range	17.00	142,316 48	1 17	1 44
55	Minneapolis, St. Paul & Sault Ste. Marie	903.46	2,537,794 11	96.70	1 45
56	Pontiac, Oxford & Northern	100.20	107,106 02	53	1 17
57	Saginaw, Tuscola & Huron	66.57	106,236 59	52	1 39
58	Saginaw Valley & St. Louis	45.10	98,259 99	83	1 38
59	Saginaw & Grand Rapids				
60	St. Joseph Valley	10.00	4,628 75		
61	St. Clair Tunnel	2.19	32,310 00		
62	Toledo, Ann Arbor & Northern Michigan	284.91	987,599 80	81.88	1 72.20
63	Toledo, Saginaw & Muskegon	96.00	115,225 13	50	1 08
64	Toledo & South Haven	36.60	27,037 99	59	45
65	Wabash (Detroit Division)	339.50	2,206,346 55	91.42	1 38.14
66	Wisconsin Central (Gogebic & Montreal River)	13.47	23,739 49	63.96	96.28
67	Detroit Union R. R. Depot & Station Co.				
	Total commercial roads	15,124.93	$95,500,096 02	$1 08.8	$1 48.4
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern	18.00	$11,559 42		
2	Crawford & Manistee River	10.00	18,183 96		
3	Dead River	2.98			
4	Grass Lake & Manistee River	12.00	8,120 26		
5	Hecla & Torch Lake	7.50	100,427 76		
6	Lake County	11.00	14,421 93		
7	Manistee & Luther	64.00	105,193 96		
8	North Branch & Sauble River	10.00	9,074 56		
9	Quincy & Torch Lake	6.00	15,808 68		
	Total ore and forest roads	141.48	$277,790 55		
	Total all roads	15,266.41	$95,777,886 57	$1 08.8	$1 48.4

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ANALYSIS OF EARNINGS AND EXPENSES.—CONTINUED.

Earnings.		Operating expenses.				Net per mile operated.				Line Number.
mile. Total.	Per mile of road operated.	Total.	Per mile of road operated.	Per train mile.	Percentage of earnings.	Surplus.	Deficit.	Net earnings per train mile.	Deficit per train mile.	
$1 68.50	$14,640 51	$14,632,675 38	$10,126 41	$1 16.50	68.27	$4,704 99	.....	$0 54.20	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
41	844 39	9,810 27	744 82	41	88	99 57	.....	.....	.....	34
2 82	800 19	7,110 29	235 83	1 06	37	389 77	.....	1 75	.....	35
71	1,911 96	80,051 85	1,334 18	51.91	69.58	583 16	.....	22.68	.....	36
2 42	2.573 81	79,294 45	1,651 34	1 55	64	922 47	.....	87	.....	37
74	1,603 54	41,574 11	1,539 77	71	99.35	63 76	.....	08	.....	38
81	1,461 27	125,294 63	1,281 20	71	87.60	180 07	.....	10	.....	39
1 87	9,335 25	11,107.569 50	6,902 46	1 01	73.25	2,520 10	.....	36.77	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
1 45.20	4,967 81	2,217,646 72	2,117 29	91.10	62.75	1,850 52	.....	51.10	.....	52
1 38	4,625 85	1,043,255 07	2,763 96	82.45	61.47	1,732 04	.....	51.67	.....	53
1 25	8,871 56	78,032 54	4,340 15	74	53	4,027 77	.....	65	.....	54
1 29	2,806 97	1,600,380 09	1,771 94	81.90	61.90	1,091 30	.....	50	.....	55
74.66	1,071 06	82,186 16	821 36	57.25	76.56	249 70	.....	17.41	.....	56
80	1,585 86	78,915 38	1,185 90	59	73.93	413 15	.....	21	.....	57
99	2,067 85	71,461 44	1,584 51	76	76.35	490 79	.....	24	.....	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	463 87	5,052 28	505 22	.....	109	.....	$42 35	.....	.....	60
.....	.....	12,109 26	.....	.....	.....	.....	.....	.....	.....	61
1 13.06	3,290 86	587,026 17	2,080 39	70.78	60.06	1,309 66	.....	47.06	.....	62
78	1,200 26	95,110 11	990 73	64	82.54	209 53	.....	14	.....	63
52.67	739 74	19,940 38	544 51	38.94	73.75	193 98	.....	13.88	.....	64
1 20.90	7,251 13	1,645,575 35	5,591 90	93.25	77.11	1,659 23	.....	27.65	.....	65
86.31	1,762 40	19,043 84	1,413 80	69.41	80.17	350 44	.....	17.28	.....	66
.....	.....	27,573 94	.....	.....	.....	.....	.....	.....	.....	67
$1 38.2	$6,314 06	$65,788,144 33	$4,349 65	$0 91.73	68.88	$1,964 43	.....	$0 41 47	.....	
$1 59.5	$642 19	$9,128 04	$507 11	$1 26	78	$135 08	.....	$0 33.50	.....	1
1 01	1,318 39	13,061 02	1,306 10	1 00	99.07	12 29	.....	01	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
58.33	676 69	8,120 26	676 69	58.33	100	.....	.....	.....	.....	4
2 00	13,390 37	100,427 76	13,390 37	2 00	100	.....	.....	.....	.....	5
.....	1,311 09	15,497 95	1,408 90	.....	107	.....	$97 81	.....	.....	6
.....	1,648 65	76,788 90	1,199 08	.....	72.9	444 62	.....	.....	.....	7
.....	907 46	4,000 00	400 00	.....	44.06	507 46	.....	.....	.....	8
1 46	2,634 78	15,754 46	2,625 74	1 45.5	99.7	9 04	.....	50	.....	9
.....	$1,963 46	$242,728 39	$1,715 64	.....	87.38	$247 82	.....	.....	.....	
$1 33.2	$6,273 76	$66,030,872 72	$4,325 24	$0 91.73	68.94	$1,948 52	.....	$0 41.47	.....	

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11.—TRAIN MILEAGE AND TRAFFIC.

Line No.	Railroads.	Train mileage.		
		Passenger trains, miles.	Freight trains, miles.	Total for trains earning revenue.
1	Au Sable & Northwestern	10,000	35,000	45,000
2	Chicago, Detroit & Canada Grand Trunk Junction	157,619	122,062	279,681
3	Chicago & Grand Trunk	1,386,157	2,248,884	3,634,991
4	Chicago, Kalamazoo & Saginaw	*a*		
5	Chicago & Northwestern	7,525,892	14,755,051	22,280,943
6	Chicago & West Michigan	796,010	696,439	1,492,449
7	Cincinnati, Jackson & Mackinaw	394,569	461,071	855,640
8	Cincinnati, Saginaw & Mackinaw	118,470	59,443	177,913
9	Cincinnati, Wabash & Michigan	291,445	342,704	634,149
10	Detroit, Bay City & Alpena	63,040	477,720	540,760
11	Detroit, Grand Haven & Milwaukee	418,048	549,567	967,615
12	Detroit, Lansing & Northern	696,897	454,103	1,151,000
13	Grand Rapids, Lansing & Detroit			
14	Saginaw & Western			
15	Duluth, South Shore & Atlantic	735,347	855,405	1,590,652
16	Flint & Pere Marquette	1,134,089	1,273,037	2,407,126
17	Frankfort & Southeastern	17,250	30,600	47,850
18	Grand Rapids & Indiana	1,027,724	1,106,125	2,133,849
19	Muskegon, Grand Rapids & Indiana			
20	Traverse City			
21	Hancock & Calumet	26,896	99,251	126,147
22	Indiana & Lake Michigan	36,236	27,163	63,399
23	Jefferson Avenue			
24	Lake Shore & Michigan Southern System	4,635,756	7,921,041	12,556,797
25	Detroit & Chicago			
26	Detroit, Hillsdale & Southwestern			
27	Detroit, Monroe & Toledo			
28	Fort Wayne & Jackson			
29	Kalamazoo, Allegan & Grand Rapids			
30	Kalamazoo & White Pigeon			
31	Northern Central Michigan			
32	Sturgis, Goshen & St. Louis			
33	Lowell & Hastings	22,500		22,500
34	Manistee & Grand Rapids		6,696	6,696
35	Manistee & Northeastern	72,372	81,840	154,212
36	Manistique	51,000		51,000
37	Mason & Oceana	18,000	40,000	58,000
38	Michigan Air Line Railway	72,768	118,480	191,248
39	Michigan Central System	4,416,661	6,609,974	11,026,635
40	Battle Creek & Sturgis			
41	Bay City & Battle Creek			
42	Canada Southern Bridge			
43	Detroit & Bay City			
44	Grand River Valley			
45	Jackson, Lansing & Saginaw			
46	Kalamazoo & South Haven			
47	Michigan Air Line			
48	Michigan Midland & Canada			
49	Saginaw Bay & Northwestern			
50	Toledo, Canada Southern & Detroit			
51	Milwaukee, Lake Shore & Western	887,791	1,546,343	2,434,133
52	Milwaukee & Northern	527,736	737,549	1,265,285
53	Mineral Range	34,814	71,490	106,304
54	Minneapolis, St. Paul & Sault Ste. Marie	577,559	1,376,397	1,953,956
55	Pontiac, Oxford & Northern	63,818	79,640	143,458
56	Saginaw, Tuscola & Huron	90,386	42,094	132,480
57	Saginaw Valley & St. Louis	65,274	28,490	93,764
58	Saginaw & Grand Rapids			
59	St. Clair Tunnel			
60	St. Joseph Valley	*a*	*a*	*a*
61	Toledo, Ann Arbor & North Michigan	362,064	467,209	829,273

a Not reported.

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TRAIN MILEAGE AND TRAFFIC.—CONTINUED.

Passenger traffic.						Line No.
Through passengers, number.	Local passengers, number.	Total passengers, number.	Total passengers previous year, number.	Passengers carried 1 mile, number.	Passengers carried 1 mile previous year, number.	
	3,413	3,413				1
34,213	235,350	269,563	229,240	5,825,876	4,886,350	2
128,588	1,019,824	1,148,412	950,777	68,500,592	63,609,045	3
						4
72,688	14,116,956	14,189,594	12,619,162	$24,114,466	$01,055,897	5
9,037	339,852	348,889	704,496	25,140,381	20,412,079	6
28,292	319,986	348,278	323,502	7,337,677	6,905,101	7
7,960	135,600	143,560	13,780	2,683,700	243,448	8
49,973	382,871	432,844	344,912	10,198,816	3,340,361	9
	100,174	100,174	116,408	3,315,690	3,512,063	10
6,085	648,632	654,717	595,873	20,306,201	18,325,534	11
33,989	725,825	759,764	714,809	22,145,804	19,563,889	12
						13
						14
59,871	373,117	432,988	420,412	20,732,628	18,724,120	15
20,688	1,218,591	1,239,279	1,257,129	32,818,739	32,447,310	16
5,029	29,703	34,732	32,602	415,873	422,596	17
59,845	1,156,371	1,216,216	1,103,787	36,022,062	33,248,831	18
						19
						20
	77,011	77,011	67,481	475,628	417,584	21
1,003	15,359	16,362	5,225	404,860	116,576	22
						23
95,806	5,713,489	5,809,295	5,019,595	246,944,673	225,265,137	24
						25
						26
						27
						28
						29
						30
						31
						32
	19,787	19,787	a	118,723	a	33
						34
a	a	a	a	a	a	35
	3,000	3,000	3,540	72,000	53,100	36
	10,000	10,000	9,000	160,000	135,000	37
420	97,541	97,961	88,841	1,422,359	1,144,591	38
114,220	3,397,664	3,511,884	3,463,321	202,290,934	195,904,013	39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
39,949	671,358	711,307	636,882	24,354,535	22,641,258	51
30,801	310,376	341,177	336,134	14,641,236	13,471,552	52
	139,860	139,860	136,148	1,053,041	977 919	53
87,281	239,370	326,651	271,664	22,146,612	16,752,026	54
573	77,552	78,125	75,261	1,526,990	1,511,971	55
3,702	78,196	81,898	70,376	1,878,773	1,510,658	56
519	101,784	102,303	99,936	1,925,229	1,808,783	57
						58
						59
a	a	a	a	a	a	60
62	292,093	292,155	281,285	9,610,107	9,119,301	61

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11.—TRAIN MILEAGE AND TRAFFIC.—CONTINUED.

Line No.	Railroads.	Train mileage.		
		Passenger trains, miles.	Freight trains, miles.	Total for trains earning revenue.
62	Toledo, Saginaw & Muskegon	76,201	71,937	148,138
63	Toledo & South Haven	28,170	23,162	51,332
64	Wabash *b*	812,674	1,223,375	2,035,449
65	Wisconsin Central (Gogebic & Montreal River)	8,009	19,336	27,345
66	Detroit Union Railroad Depot & Station Company			
	Total commercial roads	27,661,492	44,057,677	71,719,169
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern		7,250	7,250
2	Crawford & Manistee River		13,000	13,000
3	Grass Lake & Manistee River		13,920	13,920
4	Hecla & Torch Lake		48,465	48,465
5	Lake County			
6	Manistee & Luthur			
7	North Branch & Sauble River			
8	Quincy & Torch Lake		10,800	10,800
	Total ore and forest roads		93,435	93,435
	Total all roads	27,661,492	44,151,112	71,812,604

b Detroit division—based on mileage proportion.

11A.—TRAFFIC.

Line number.	Railroads.	Passenger travel		
		Average distance traveled by each passenger. Miles.	Average fare paid by each passenger.	Average through rate per mile.
1	Au Sable & Northwestern			
2	Chicago, Detroit & C. G. T. Junction	22	$0 55	$0 02.5
3	Chicago & Grand Trunk	59.90	96.63	01.44
4	Chicago, Kalamazoo & Saginaw	*a*		
5	Chicago and Northwestern	42.84	50	02.26
6	Chicago & West Michigan	29.61	69.02	02.27
7	Chicago & North Michigan			
8	Cincinnati, Jackson & Mackinaw	20.99	50.50	02.10
9	Cincinnati, Saginaw & Mackinaw	18.70	39.16	02.37
10	Cincinnati, Wabash & Michigan	23.99	61	02.50
11	Detroit, Bay City & Alpena	33.09	82	
12	Detroit, Grand Haven & Milwaukee	31	72.08	01.84
13	Detroit, Lansing and Northern	29.14	69.49	02.36
14	Grand Rapids, Lansing & Detroit			
15	Saginaw & Western			
16	Duluth, South Shore & Atlantic	47.88	1 45.50	02.78
17	Marquette, Houghton & Ontonagon			
18	Marquette & Western			
19	Flint & Pere Marquette	26	63	02.16
20	Frankfort & Southeastern	12	33	02.29
21	Grand Rapids & Indiana	29.62	70	02.42
22	Muskegon, Grand Rapids & Indiana			
23	Traverse City			
24	Hancock & Calumet	6.17	23.32	
25	Indiana & Lake Michigan	25	54	01.80
26	Jefferson Avenue			

a Not reported.

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TRAIN MILEAGE AND TRAFFIC.—CONTINUED.

Passenger traffic.						Line No.
Through passengers, number.	Local passengers, number.	Total passengers, number.	Total passengers previous year, number.	Passengers carried 1 mile, number.	Passengers carried 1 mile previous year, number.	
1,547	56,264	57,811	58,812	1,104,818	1,084,498	62
	41,932	41,932	42,409	461,250	508,908	63
689,180		689,180	573,076	28,827,018	26,762,649	64
15,943	15,943	31,891	28,644	152,337	147,408	65
						66
1,542,749	32,664,894	34,207,643	30,725,115	1,139,179,667	1,051,629,549	
						1
						2
						3
						4
						5
	628	628		15,700		6
						7
						8
	628	628		15,700		
1,542,749	32,665,522	34,208,271	30,725,115	1,139,195,367	1,051,629,549	

TRAFFIC.—CONTINUED.

and rates.		Freight movements.—Number tons.				Line number.
Average local rate per mile.	Average rate per mile for all passengers.	Tons of through freight moved.	Tons of local freight moved.	Total tons of freight moved.	Total tons of freight moved previous year.	
		44,345		44,345		1
$0 02.6	$0 02.5	58,417	213,450	271,867	281,336	2
01.87	01.61	1,061,517	767,216	1,828,733	1,888,028	3
						4
02.19	02.20	417,859	13,525,617	13,943,476	14,520,296	5
02.33	02.33	12,922	1,258,536	1,271,458	1,161,214	6
						7
02.46	02.37	274,428	415,398	689,826	656,786	8
02.04	02.09	30,132	171,232	201,364	81,843	9
02.50	02.50	170,185	277,055	447,240	432,902	10
	02.47		739,833	739,833	923,698	11
02.35	02.32	124,299	549,142	673,441	656,981	12
02.38	02.38	71,620	554,629	626,249	562,683	13
						14
						15
03.25	03.03	382,016	1,737,815	2,119,831	2,270,143	16
						17
						18
02.38	02.37	241,859	1,576,139	1,817,998	1,809,366	19
02.81	02.68	5,745	47,880	53,625	40,702	20
02.34	02.34	174,415	1,914,402	2,088,817	2,319,991	21
						22
						23
03.77	03.77		889,947	889,947	649,456	24
02.24	02.20	13,823	16,487	29,810	8,320	25
						26

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TRAFFIC.—CONTINUED.

Line number.	Railroads.	Passenger travel		
		Average distance traveled by each Passenger. Miles.	Average fare paid by each Passenger.	Average through rate per mile.
27	Lake Shore & Michigan Southern System	42.50	$0 93	$0 02.16
28	Detroit & Chicago			
29	Detroit, Hillsdale & Southwestern			
30	Detroit, Monroe & Toledo			
31	Fort Wayne & Jackson			
32	Kalamazoo, Allegan & Grand Rapids			
33	Kalamazoo & White Pigeon			
34	Northern Central Michigan			
35	Sturgis, Goshen & St. Louis			
36	Lowell & Hastings	6	20	
37	Manistee & Grand Rapids			
38	Manistee & Northeastern			
39	Manistique	24	67	
40	Mason & Oceana	16	44	
41	Michigan Air Line Railway	14.52	38	01.60
42	Michigan Central System	57.60	1 29.58	02.04
43	Battle Creek & Sturgis			
44	Bay City & Battle Creek			
45	Canada Southern Bridge			
46	Detroit & Bay City			
47	Grand River Valley			
48	Jackson, Lansing & Saginaw			
49	Kalamazoo & South Haven			
50	Michigan Air Line Railroad			
51	Michigan Midland & Canada			
52	Saginaw Bay & Northwestern			
53	Toledo, Canada Southern & Detroit			
54	Milwaukee, Lake Shore & Western	34.20	88	03.64
55	Milwaukee & Northern	42.90	1 10	03.73
56	Mineral Range	7.52	27.61	
57	Minneapolis, St. Paul & Sault Ste. Marie	67.73	1.51	01.92
58	Pontiac, Oxford & Northern	19.50	49.89	01.97
59	Saginaw, Tuscola & Huron	23	54	02.05
60	Saginaw Valley & St. Louis	18.81	48.69	02.75
61	Saginaw & Grand Rapids			
62	St. Clair Tunnel			
63	St. Joseph Valley			
64	Toledo, Ann Arbor & North Michigan	32.50	86.60	02.67
65	Toledo, Saginaw & Muskegon	19.10	55.55	02.89
66	Toledo & South Haven	11	33	
67	Wabash [b]	45.10	81.77	
68	Wisconsin Central (Gogebic & Montreal River)	4.77	14.44	03.17
69	Detroit Union R. R. Depot & Station Co.			
	Total commercial roads	33.30	$0 74.28	
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern			
2	Crawford & Manistee River			
3	Grass Lake & Manistee River			
4	Hecla & Torch Lake			
5	Lake County			
6	Manistee & Luther	25	$0 75	
7	North Branch & Sauble River			
8	Quincy & Torch Lake			
	Total ore and forest roads			
	Total all roads	33.30	$0 74.28	

b Detroit division—based on mileage proportion.

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TRAFFIC.—CONTINUED.

and rates.		Freight movements.—Number tons.				Line number.
Average local rate per mile.	Average rate per mile for all passengers.	Tons of through freight moved.	Tons of local freight moved.	Total tons of freight moved.	Total tons of freight moved previous year.	
$0 02.18	$0 02.17	1,587,292	10,481,724	12,019,016	11,531,266	27
						28
						29
						30
						31
						32
						33
						34
						35
03.33	03.33		10,700	10,700	6,071	36
			44,646	44,646		37
		28,193	225,685	253,878	187,355	38
02.80	02.80		225,002	225,002	212,596	39
03	03		80,000	80,000	60,000	40
02.70	02.60	14,096	181,710	195,806	210,994	41
02.31	02.24	1,612,866	5,608,136	7,221,002	6,977,571	42
						43
						44
						45
						46
						47
						48
						49
						50
						51
						52
						53
02.55	02.57	1,249,892	1,711,350	2,961,242	3,437,199	54
02.50	02.56	827,117	362,745	1,189,862	1,012,159	55
03.66	03.66		166,540	166,540	123,725	56
02.78	02.22	911,370	536,051	1,447,421	1,108,188	57
02.58	02.55	2,137	61,575	63,712	60,490	58
02.31	02.36	2,260	76,911	79,171	72,002	59
02.58	02.58	1,537	60,860	62,397	67,973	60
						61
						62
						63
02.89	02.89	8,494	777,980	786,474	941,269	64
02.93	02.92	17,114	80,695	97,809	98,753	65
03	03		10,134	10,134	10,772	66
	02.09		1,154,800	1,154,800	1,179,053	67
02.93	03.02	522,584	829	523,413	856,779	68
						69
	$0 02.23	9,868,084	46,462,351	56,330,385	56,379,960	
			21,312	21,312	18,516	1
					46,084	2
			20,600	20,600	37,198	3
			1,132,875	1,132,975	1,058,273	4
					64,227	5
$0 03.00	$0 03.00		83,778	83,778	97,520	6
						7
			263,678	263,678	132,768	8
			1,522,243	1,522,243	1,449,584	
	$0 02.23	9,868,084	47,984,594	57,852,628	57,829,544	

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11B.—TRAFFIC.—CONTINUED.

Freights.

Line number.	Railroads.	Mileage. Through freight.	Local freight.	Total or tons moved one mile.	Moved one mile previous year.
1	Au Sable & Northwestern				
2	Chicago, Detroit & C. G. T. Junction	3,446,608	5,164,887	8,611,490	9,127,219
3	Chicago & Grand Trunk	348,793,808	93,145,914	441,939,717	469,103,337
4	Chicago, Kalamazoo & Saginaw				
5	Chicago & Northwestern	148,200,749	1,895,562,394	2,043,763,143	2,089,511,816
6	Chicago & West Michigan	1,802,748	83,765,449	85,568,197	77,697,060
7	Cincinnati, Jackson & Mackinaw	25,540,424	35,470,018	61,010,442	54,873,654
8	Cincinnati, Saginaw & Mackinaw	1,592,869	6,063,577	7,656,446	1,225,567
9	Cincinnati, Wabash & Michigan	10,678,497	23,930,063	34,608,560	28,510,174
10	Detroit, Bay City & Alpena		24,075,621	24,075,621	20,610,661
11	Detroit, Grand Haven & Milwaukee	23,428,613	30,899,665	54,318,278	53,900,019
12	Detroit, Lansing & Northern	11,022,119	37,401,629	48,423,748	50,864,073
13	Grand Rapids, Lansing & Detroit				
14	Saginaw & Western				
15	Duluth, South Shore & Atlantic	48,410,096	50,251,060	98,661,156	112,165,210
16	Flint & Pere Marquette	44,805,659	122,041,987	166,847,646	173,795,306
17	Frankfort & Southeastern	123,271	667,131	790,402	504,318
18	Grand Rapids & Indiana	15,054,406	154,934,903	169,989,309	202,011,822
19	Muskegon, Grand Rapids & Indiana				
20	Traverse City				
21	Hancock & Calumet		6,745,288	6,745,288	5,138,921
22	Indiana & Lake Michigan	490,442	368,717	859,159	362,788
23.	Jefferson Avenue				
24	Lake Shore & Michigan Southern System	648,163,061	1,520,564,170	2,168,727,231	2,156,677,869
25	Detroit & Chicago				
26	Detroit, Hillsdale & Southwestern				
27	Detroit, Monroe & Toledo				
28	Fort Wayne & Jackson				
29	Kalamazoo, Allegan & Grand Rapids				
30	Kalamazoo & White Pigeon				
31	Northern Central Michigan				
32	Sturgis, Goshen & St. Louis				
33	Lowell & Hastings		74,900	74,900	
34	Manistee & Grand Rapids		808,628	808,628	
35	Manistee & Northeastern	592,584	5,000,524	5,593,108	3,977,813
36	Manistique		5,762,702	5,762,702	4,232,913
37	Mason & Oceana		1,600,000	1,600,000	120,000
38	Michigan Air Line Railway	1,494,176	9,134,292	10,628,468	11,618,602
39	Michigan Central System	717,439,530	650,763,805	1,368,203,335	1,339,918,611
40	Battle Creek & Sturgis				
41	Bay City & Battle Creek				
42	Canada Southern Bridge				
43	Detroit & Bay City				
44	Grand River Valley				
45	Jackson, Lansing & Saginaw				
46	Kalamazoo & South Haven				
47	Michigan Air Line Railroad				
48	Michigan Midland & Canada				
49	Saginaw Bay & Northwestern				
50	Toledo, Canada Southern & Detroit				
51	Milwaukee, Lake Shore & Western	146,653,574	99,891,199	246,544,773	293,594,139
52	Milwaukee & Northern	103,553,566	23,638,089	127,191,655	107,737,709
53	Mineral Range		1,296,063	1,296,063	961,043
54	Minneapolis, St. Paul & Sault Ste. Marie		276,024,813	276,024,813	224,365,406
55	Pontiac, Oxford & Northern	213,700	2,109,058	2,322,758	2,490,558
56	Saginaw, Tuscola & Huron	151,724	2,648,533	2,800,257	2,742,256
57	Saginaw Valley & St. Louis	69,165	1,238,828	1,307,993	1,751,274
58	Saginaw & Grand Rapids				
59	St. Clair Tunnel				
60	St. Joseph Valley				
61	Toledo, Ann Arbor & North Michigan	2,327,356	60,789,672	63,117,028	75,695,849

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TRAFFIC.—CONTINUED.

Freights.

Ton haul.			Rates.					Line number.
Through miles.	Local miles.	All miles.	Average amount each ton haul.	Per ton per mile, through.	Per ton per mile, local.	Per ton per mile, all.	Average per ton per mile, previous year.	
								1
59	24	32	$0 34.70	$0 01.10	$0 01.1	$0 01.1	$0 01	2
328.6	121.4	241.7	1 46.31	00.53	00.89	00.61	00.57	3
								4
355	140	147	1 50	00.91	01.04	01.08	00.98	5
139.50	66.55	67.29	86.97	01.12	01.29	01.29	01.32	6
93	35	38	69	00.60	00.90	00.78	00.79	7
58	35.41	38.02	61.92	01.16	01.75	01.63	01.59	8
68.6	86.4	77.3	1 00.3	01.50	01.16	01.29	01.21	9
		32.54	42			01.80	01.30	10
189	56.3	80.7	99.19	00.42	01.85	01.23	01.20	11
153.89	67.43	77.32	1 05.18	00.971	01.474	01.153	08.33	12
								13
								14
113.63	28.91	44.18	67.511	01.162	01.84	01.528	01.39	15
185	77	92	90.9	00.577	01.142	00.99	00.98	16
21.45	13.93	14.74	39.81	08.23	02.60	02.70	08.86	17
86.31	80.93	81.38	78	00.903	00.958	00.928	00.92	18
								19
								20
	7.57	7.57	17.58		02.32	02.32	02.80	21
87	22	29	58	01.459	02.761	02.018	01.58	22
								23
408.3	145.8	180.4	1 13.4	00.553	00.661	00.628	00.62	24
								25
								26
								27
								28
								29
								30
								31
								32
	7	7	56		04	04	03	33
	18	18	39		02	02		34
21	22.15	22.03	29.86	02	01.20	01.30	01.40	35
	25.61	25.61	55		02	02	02.50	36
	20	20	47		02.35	02.35	02.15	37
106	50	54	55	00.7	01	01	01	38
445	116	189	1 37	00.552	00.909	00.722	00.69	39
								40
								41
								42
								43
								44
								45
								46
								47
								48
								49
								50
117.80	58.80	83.20	94.3	00.843	01.552	01.133	01.07	51
125.20	65.166	107	1 10	00.797	02.02	01.025	01.10	52
	7.78	7.78	60.96		07.83	07.83	06.62	53
	191	191	1 33		00.70	00.70	00.66	54
100	34.3	36.50	93.43	01.42	02.68	02.56	02.43	55
67	34	35	74	01.923	02.103	02.003	02.09	56
45	20.36	20.96	62.745	08.577	02.960	02.993	02.81	57
								58
								59
								60
274	78.10	80.20	76.7	00.51	00.97	00.95	00.92	61

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11B.—TRAFFIC.—CONTINUED.

Freights.

Line number.	Railroads.	Mileage. Through freight.	Local freight.	Total or tons moved one mile.	Moved one mile previous year.
62	Toledo, Saginaw & Muskegon	1,631,631	2,603,066	4,234,697	4,732,367
63	Toledo & South Haven		222,948	222,948	226,212
64	Wabash	a	223,808,493	223,808,493	243,061,622
65	Wisconsin Central (Gogebic & Montreal Riv.	1,302,555	4,974	1,307,529	2,966,791
66	Detroit Union Railroad Depot & Station Co.				
	Total commercial roads	2,301,982,921	5,458,453,080	7,760,435,951	7,840,212,567
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern				
2	Crawford & Manistee River				
3	Grass Lake & Manistee River				334,764
4	Hecla & Torch Lake		8,496,562	8,496,562	7,899,548
5	Lake County				
6	Manistee & Luther				
7	North Branch & Sauble River				
8	Quincy & Torch Lake	1,582,068		1,582,068	796,608
	Total ore and forest roads	1,582,068	8,496,562	10,078,630	9,030,920
	Total for all roads	2,303,564,989	5,466,949,592	7,770,514,581	7,849,243,487

a Detroit division—based on mileage proportion.

12.—TONNAGE AND COMMODITIES MOVED.

Line No.	Railroads.	Grain—tons. 9.18 per cent.	Flour—tons. 2.5 per cent.	Provisions, meats, etc.—tons. 2.16 per cent.
1	Au Sable & Northwestern			
2	Chicago, Detroit & C. G. T. Junction	37,439	11,721	785
3	Chicago & Grand Trunk	305,467	32,821	353,996
4	Chicago, Kalamazoo & Saginaw	*a*		
5	Chicago & Northwestern	1,436,940	329,764	154,080
6	Chicago & West Michigan	29,720	16,601	1,909
7	Cincinnati, Jackson & Mackinaw	47,504	9,339	6,440
8	Cincinnati, Saginaw & Mackinaw	6,694	1,763	2,439
9	Cincinnati, Wabash & Michigan	26,430	18,205	1,420
10	Detroit, Bay City & Alpena	3,390	1,659	1,288
11	Detroit, Grand Haven & Milwaukee	80,299	94,187	4,946
12	Detroit, Lansing & Northern	47,641	21,108	1,154
13	Grand Rapids, Lansing & Detroit			
14	Saginaw & Western			
15	Duluth, South Shore & Atlantic	27,326	28,518	12,627
16	Flint & Pere Marquette	91,277	136,206	60,516
17	Frankfort & Southeastern	164	228	48
18	Grand Rapids & Indiana	44,372	27,988	6,693
19	Muskegon, Grand Rapids & Indiana			
20	Traverse City			
21	Hancock & Calumet	3,376	1,156	1,741
22	Indiana & Lake Michigan	743	57	270
23	Jefferson Avenue			

a Not reported.

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TRAFFIC.—CONTINUED.

Freights.

Ton haul.			Rates.					Line number.
Through miles.	Local miles.	All miles.	Average amount each ton haul.	Per ton per mile, through.	Per ton per mile, local.	Per ton per mile, all.	Average per ton per mile, previous year.	
96	32.3	43.3	$0 79.12	$0 01.01	$0 02.34	$0 01.83	$0 01.58	62
	22	22	1 02				04.76	63
	193.9	193.9	1 46.39		00.755	00.755	00.64	64
2.49	6	2.50	03.42	01.31	16.68	01.37	01.27	65
								66
233.27	117.48	137.76	$1 16.06			$0 00.842	$0 00.706	
								1
								2
			$0 39.40	$0 03.3		$0 03.3		3
								4
								5
			1 25					6
								7
6		6	06	01		01	02.50	8
		6.62	$0 27.51			$0 04	$0 03.55	
233.37	113.98	134.31	$1 13.48			$0 00.844	$0 00.709	

TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Animals—tons. 3.49 per cent.	Other agricultural products—tons. 3.23 per cent.	Lumber and forest products—tons. 31.29 per cent.	Coal—tons. 13.19 per cent.	Plaster, lime, cement —tons. 1.27 per cent.	Salt—tons. 1.08 per cent.	Line No.
						1
8,276	28,585	37,546	24,015	1,008	293	2
220,431	129,344	140,167	68,902	35,015	33,178	3
						4
633,975	372,144	1,771,604	1,656,124	164,398	73,264	5
7,819	130,871	773,963	114,966	17,298	2,953	6
10,315	20,505	128,689	298,239	5,091	1,959	7
1,033	4,633	95,598	932	1,246	65,554	8
12,998	9,206	180,440	28,620	11,943	1,230	9
237	1,639	716,255	174	67	2,072	10
24,851	68,414	143,823	31,380	22,043	1,375	11
20,080	37,671	259,376	41,238	6,256	9,501	12
						13
						14
2,968	32,964	494,632	96,910	5,039	325	15
17,884	38,638	1,100,708	38,436	16,566	62,788	16
25	1,077	49,754	4	27	8	17
8,993	82,808	969,623	119,464	27,350	9,637	18
						19
						20
	1,374	39,305	35,058		130,782	21
52	1,869	10,850	1,063	160	1,976	22
						23

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12.—TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Line No.	Railroads.	Grain—tons. 9.18 per cent.	Flour—tons. 2.8 per cent.	Provisions, meats, etc.—tons. 2.16 per cent.
24	Lake Shore & Michigan Southern System	1,101,546	462,183	285,452
25	Detroit & Chicago			
26	Detroit, Hillsdale & Southwestern			
27	Detroit, Monroe & Toledo			
28	Fort Wayne & Jackson			
29	Kalamazoo, Allegan & Grand Rapids			
30	Kalamazoo & White Pigeon			
31	Northern Central Michigan			
32	Sturgis, Goshen & St. Louis			
33	Lowell & Hastings	1,820	1,679	100
34	Manistee & Grand Rapids			
35	Manistee & Northeastern	802	496	366
36	Manistique			
37	Mason & Oceana	600	60	100
38	Michigan Air Line Railway	12,559	10,104	638
39	Michigan Central System	698,113	178,806	323,630
40	Battle Creek & Sturgis			
41	Bay City & Battle Creek			
42	Canada Southern Bridge			
43	Detroit & Bay City			
44	Grand River Valley			
45	Jackson, Lansing & Saginaw			
46	Kalamazoo & South Haven			
47	Michigan Air Line Railroad			
48	Michigan Midland & Canada			
49	Saginaw Bay & Northwestern			
50	Toledo, Canada Southern & Detroit			
51	Milwaukee, Lake Shore & Western	35,116	45,475	17,749
52	Milwaukee & Northern	62,939	28,793	5,112
53	Mineral Range	7,630	9,051	10,584
54	Minneapolis, St. Paul & Sault Ste. Marie	309,108	152,051	2,895
55	Pontiac, Oxford & Northern	9,866	1,275	
56	Saginaw, Tuscola & Huron	2,419	985	783
57	Saginaw Valley & St. Louis	5,406	668	483
58	Saginaw & Grand Rapids			
59	St. Clair Tunnel			
60	St. Joseph Valley			
61	Toledo, Ann Arbor & North Michigan	20,367	20,096	787
62	Toledo, Saginaw & Muskegon	12,996	5,319	317
63	Toledo & South Haven	1,443	887	29
64	Wabash [b]	1,346,150	131,345	209,542
65	Wisconsin Central (Gogebic & Montreal River)	343	157	183
66	Detroit Union R. R. Depot & Station Co.			
	Total commercial roads	5,813,025	1,780,096	1,369,072
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern			
2	Crawford & Manistee River			
3	Grass Lake & Manistee River			
4	Hecla & Torch Lake	500		
5	Lake County			
6	Manistee & Luther			
7	North Branch & Sauble River			
8	Quincy & Torch Lake			
	Total ore and forest roads	500		
	Total all roads	5,813,525	1,780,096	1,369,072

b Entire system.

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TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Animals—tons. 3.49 per cent.	Other agricultural products—tons. 3.23 per cent.	Lumber and forest products—tons. 21.29 per cent.	Coal—tons. 13.19 per cent.	Plaster, lime, cement —tons. 1.27 per cent.	Salt—tons. 1.08 per cent.	Line No.
511,519	338,338	903,980	2,590,242	175,300	78,391	24
						25
						26
						27
						28
						29
						30
						31
						32
260	1,230	2,970	1,130	50	100	33
		44,646				34
222	2,209	284,765	7,918	56	710	35
		222,022				36
10	5	78,475	5	20	60	37
2,787	8 170	38,630	37,093	617	385	38
208,464	322,787	2,101,623	892,169	31,924	170,941	39
						40
						41
						42
						43
						44
						45
						46
						47
						48
						49
						50
6,693	42,004	928,117	80,145	50,391	2,589	51
9,088	15,637	372,742	62,763	36,900	2,088	52
289	15,859	69,425	24,105			53
4,987	16,263	437,349	91,092	22,162	7,705	54
2,950	7,668	26,810	3,832	225	690	55
2,195	837	27,831	8,481	2,284	351	56
954	1,807	31,587	492	1,032	8,524	57
						58
						59
						60
7,374	30,292	224,485	251,502	5,447	11,381	61
2,773	15,090	41,498	2,155	1,455	282	62
472	352	4,229	892	227	132	63
479,983	269,040	582,867	1,669,803	110,532		64
156	2,502	15,659	27,981	40	13	65
						66
2,210,513	2,046,212	13,251,987	8,301,728	802,164	681,917	
		21,062				1
		41,909				2
		20,600				3
		25,000	60,000	3,000		4
		57,687				5
		82,278				6
		c				7
						8
		247,936	60,000	3,000		
2,210,513	2,046,212	13,499,923	8,361,728	805,164	681,917	

c 13,149,120 feet of logs.

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12A.—TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Line number.	Railroads.	Petroleum and charcoal. Tons. 1.17 per cent.	Railroad rails. Tons. .25 per cent.	Pig and bloom iron. Tons. 1.11 per cent.	Other iron and castings. Tons. 1.77 per cent.
1	Au Sable & Northwestern				
2	Chicago, Detroit & C. G. T. Junction	2,423	276	731	465
3	Chicago & Grand Trunk	25,768	3,965	8,219	17,554
4	Chicago, Kalamazoo & Saginaw				
5	Chicago & Northwestern	20,125	68,954	180,389	174,016
6	Chicago & West Michigan	5,351	7,402	14,498	10,271
7	Cincinnati, Jackson & Mackinaw	10,305	2,482	12,817	6,192
8	Cincinnati, Saginaw & Mackinaw	164	1,656	187	816
9	Cincinnati, Wabash & Michigan	9,444	809	2,290	8,505
10	Detroit, Bay City & Alpena	368	289		325
11	Detroit, Grand Haven & Milwaukee	2,954	202	6,991	4,895
12	Detroit, Lansing & Northern	5,290	1,843	1,084	9,716
13	Grand Rapids, Lansing & Detroit				
14	Saginaw & Western				
15	Duluth, South Shore & Atlantic	2,940	4,416	31,169	16,786
16	Flint & Pere Marquette	12,502		27,548	
17	Frankfort & Southeastern	60			273
18	Grand Rapids & Indiana	14,696	5,076	46,465	58,689
19	Muskegon, Grand Rapids & Indiana				
20	Traverse City				
21	Hancock & Calumet				
22	Indiana & Lake Michigan			3,935	902
23	Jefferson Avenue				
24	Lake Shore & Michigan Southern System	412,269	23,806	181,094	616,095
25	Detroit & Chicago				
26	Detroit, Hillsdale & Southwestern				
27	Detroit, Monroe & Toledo				
28	Fort Wayne & Jackson				
29	Kalamazoo, Allegan & Grand Rapids				
30	Kalamazoo & White Pigeon				
31	Northern Central Michigan				
32	Sturgis, Goshen & St. Louis				
33	Lowell & Hastings	21			31
34	Manistee & Grand Rapids				
35	Manistee & Northeastern	202	444	78	365
36	Manistique				
37	Mason & Oceana	30	20		5
38	Michigan Air Line Railway	439	629	1,019	829
39	Michigan Central System	138,413	5,248	104,380	107,919
40	Battle Creek & Sturgis				
41	Bay City & Battle Creek				
42	Canada Southern Bridge				
43	Detroit & Bay City				
44	Grand River Valley				
45	Jackson, Lansing & Saginaw				
46	Kalamazoo & South Haven				
47	Michigan Air Line Railroad				
48	Michigan Midland & Canada				
49	Saginaw Bay & Northwestern				
50	Toledo, Canada Southern & Detroit				
51	Milwaukee, Lake Shore & Western	8,441	2,972	7,958	4,903
52	Milwaukee & Northern			22,235	
53	Mineral Range				
54	Minneapolis, St. Paul & Sault Ste. Marie	708	11,964	6,446	8,920
55	Pontiac, Oxford & Northern	135			
56	Saginaw, Tuscola & Huron	294			128
57	Saginaw Valley & St. Louis	450	151	1	766
58	Saginaw & Grand Rapids				
59	St. Clair Tunnel				
60	St. Joseph Valley				
61	Toledo, Ann Arbor & North Michigan	11,529	2,419	7,292	10,103

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TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Ores and minerals. Tons. 16.31 per cent.	Stone, brick, sand, etc. Tons. 5.77 per cent.	Manufactures. Tons. 3.54 per cent.	Merchandise and articles not included in other classes. Tons. 12.39 per cent.	Total tonnage 1891. 100 per cent.	Total tonnage previous year.	Freight forwarded from Michigan stations. Tons.
			44,345	44,345		44,345
374	5,499	43,427	74,059	271,867	231,336	173,642
16,677	41,010	145,798	300,656	1,828,738	1,888,028	254,993
			49,618	49,618	31,986	49,618
3,812,697	619,968	394,180	2,080,959	13,943,476	14,520,696	3,967,311
	46,418	34,060	58,344	1,271,458	1,161,214	1,135,177
2,148	28,851	2,328	101,621	699,526	666,786	158,323
	851	4,262	14,086	201,364	31,943	201,364
140	32,990	32,560	20,115	447,240	432,902	71,349
	135	1,096	10,839	739,833	923,689	739,833
43	38,009	26,553	121,971	673,441	658,981	558,774
	84,872	19,635	59,784	626,249	562,683	626,249
1,241,480	41,278		80,458	2,119,831	2,270,143	2,045,100
156	11,186	54,488	149,004	1,817,998	1,809,866	1,749,869
	268	196	1,398	53,625	40,702	53,625
32,435	431,981	52,002	151,254	2,088,817	2,319,991	1,509,681
22,331	641,812	3,954	9,058	889,947	649,456	889,947
16	820	838	6,269	29,810	8,320	24,620
1,277,053	986,905	404,796	1,720,267	12,019,016	11,531,266	1,023,227
		281	1,028	10,700	4,052	10,700
				44,646		44,646
	465	329	4,451	253,878	187,365	225,685
			2,960	225,002	212,596	225,002
	10		600	80,000	60,000	80,000
	6,715	10,453	64,748	195,806	210,994	139,647
2,015	422,883	665,086	851,601	7,221,002	6,977,571	3,847,034
1,468,227	25,496	113,276	121,690	2,961,242	3,437,199	1,373,790
371,173	18,185	45,022	137,285	1,189,862	1,012,159	511,099
5,430		13,123	11,031	166,540	123,725	166,540
274,069	1,763	3,068	96,841	1,447,421	1,106,188	903,323
	350	540	9,411	63,712	60,490	63,712
	25,782	483	6,319	79,171	72,602	79,171
	1,989	1,196	6,589	62,397	67,973	62,397
73,510	8,514	31,613	69,763	786,474	941,269	440,870

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12A.—TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Line number.	Railroads.	Petroleum and charcoal. Tons. 1.17 per cent.	Railroad rails. Tons. .25 per cent.	Pig and bloom iron. Tons. 1.11 per cent.	Other iron and castings. Tons. 1.77 per cent.
62	Toledo, Saginaw & Muskegon	337	58	366	978
63	Toledo & South Haven	86			74
64	Wabash *b*	52,596	12,226	31,731	62,823
65	Wisconsin Central (G. & M. River)	563	77		457
66	Detroit Union R. R. Depot & Station Co.				
	Total commercial roads	738,903	157,385	698,813	1,123,743
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern				
2	Crawford & Manistee River				
3	Grass Lake & Manistee River				
4	Hecla & Torch Lake				
5	Lake County				
6	Manistee & Luther				
7	North Branch & Sauble River				
8	Quincy & Torch Lake				
	Total ore and forest roads				
	Total all roads	738,903	157,385	698,913	1,123,743

b Entire system.

13.—EQUIPMENT.

Line number.	Railroads.	Estimated value.	Rolling stock.—Number.		
			Locomotives, all classes.	Passenger cars, all classes.	Baggage, mail, and express cars.
1	Au Sable & Northwestern		11	2	2
2	Bay City Belt Line				
3	Chicago, Detroit & C. G. T. Junction	*a*			
4	Chicago & Grand Trunk	$1,236,550 00	181	31	17
5	Chicago, Kalamazoo & Saginaw	21,100 00	3	2	1
6	Chicago & Northwestern	12,384,770 00	846	415	117
7	Chicago & West Michigan	922,225 00	70	47	25
8	Cincinnati, Jackson & Mackinaw	407,475 00	29	20	3
9	Cincinnati, Saginaw & Mackinaw	102,350 00	8	12	2
10	Cincinnati, Wabash & Michigan	517,950 00	27	25	6
11	Detroit, Bay City & Alpena	320,357 22	20	5	2
12	Detroit, Grand Haven & Milwaukee	587,075 00	41	25	20
13	Detroit, Lansing & Northern	531,525 00	40	41	22
14	Grand Rapids, Lansing & Detroit				
15	Saginaw & Western				
16	Duluth, South Shore & Atlantic	2,250,400 00	105	40	13
17	Flint & Pere Marquette	1,371,120 00	104	96	22
18	Frankfort & Southeastern	32,900 00	2	2	
19	Grand Rapids & Indiana	1,340,750 00	59	68	24
20	Muskegon, Grand Rapids & Indiana				
21	Traverse City				
22	Hancock & Calumet	148,950 21	8	4	1
23	Indiana & Lake Michigan	*b*			
24	Jefferson Avenue	16,700 00	6	5	1

a Equipped by Grand Trunk Railway of Canada.

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TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Ores and minerals. Tons. 16.31 per cent.	Stone, brick, sand, etc. Tons. 5.77 per cent.	Manufactures. Tons. 3.54 per cent.	Merchandise and articles not included in other classes. Tons. 12.39 per cent.	Total tonnage 1891. 100 per cent.	Total tonnage previous year.	Freight forwarded from Michigan stations. Tons.	Line number.
----	443	3,581	10,161	97,809	98,753	97,809	62
----	127	27	1,657	10,134	10,772	10,134	63
2,126	172,782	85,929	1,873,006	6,542,481	6,738,210	a	64
470,591	683	579	3,429	528,413	356,779	472,501	65
----	----	----	----	----	----	----	66
9,072,611	3,648,490	2,244,805	7,826,620	61,768,184	61,969,475	23,556,007	
----	----	----	250	21,312	18,516	21,312	1
----	----	----	----	41,309	46,084	41,309	2
----	----	----	----	20,600	37,196	20,600	3
1,006,875	12,000	----	26,000	1,132,875	1,053,273	1,132,875	4
----	----	----	----	57,687	64,227	57,867	5
----	----	----	1,500	83,778	97,520	83,778	6
----	----	----	----	----	----	----	7
263,678	----	----	----	263,678	132,768	263,678	8
1,270,053	12,000	----	27,750	1,621,239	1,449,584	1,621,419	
10,342,664	3,660,490	2,244,805	7,854,370	63,389,423	63,419,079	25,177,426	

a Not kept separate.

EQUIPMENT.—CONTINUED.

Rolling stock.—Number.							Number of locomotives equipped with train brake.	Cars equipped with power brakes.—Number.		Line number.
Box freight cars.	Stock cars.	Platform and coal cars.	Ore cars.	Conductors' way cars.	All other kinds of cars.	Total cars.		Passenger.	Freight.	
5	----	23	----	----	250	282	11	4	----	1
----	----	----	----	----	----	----	----	----	----	2
----	----	----	----	----	----	----	----	----	----	3
173	15	145	----	62	10	454	131	48	----	4
1	----	10	----	1	15	30	2	2	----	5
15,179	1,861	4,247	4,005	486	271	26,581	795	661	4,161	6
1,052	25	1,205	----	27	287	2,619	67	68	300	7
1,081	19	265	117	13	3	1,521	23	23	b	8
30	----	65	----	2	1	112	6	14	b	9
587	18	304	----	12	6	958	19	31	b	10
37	----	609	----	5	1	659	20	7	----	11
362	44	199	----	21	29	700	20	45	b	12
510	44	639	----	27	10	1,293	35	63	6	13
----	----	----	----	----	----	----	----	----	----	14
----	----	----	----	----	----	----	----	----	----	15
823	----	715	3,622	42	47	5,302	76	53	35	16
1,847	43	1,214	318	54	269	3,763	53	118	b	17
2	----	37	----	----	----	41	b	2	b	18
1,410	50	1,390	189	52	35	3,218	54	92	96	19
----	----	----	----	----	----	----	----	----	----	20
----	----	----	----	----	----	----	----	----	----	21
16	----	123	115	----	4	263	5	4	b	22
----	----	----	----	----	----	----	----	----	----	23
----	----	----	----	----	----	6	6	----	----	24

b None.

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13.—EQUIPMENT.—CONTINUED.

Line number.	Railroads.	Estimated value.	Rolling stock.—Number. Locomotives, all classes.	Passenger cars, all classes.	Baggage, mail, and express cars.
25	Lake Shore & Michigan Southern System	7,063,707 43	560	217	106
26	Detroit & Chicago				
27	Detroit, Hillsdale & Southwestern				
28	Detroit, Monroe & Toledo				
29	Fort Wayne & Jackson				
30	Kalamazoo, Allegan & Grand Rapids				
31	Kalamazoo & White Pigeon				
32	Northern Central Michigan				
33	Sturgis, Goshen & St. Louis				
34	Lowell & Hastings	7,000 00	2	1	
35	Manistee & Grand Rapids	54,230 70	2		
36	Manistee & Northeastern	118,773 50	7	3	2
37	Manistique	66,327 66	3		
38	Mason & Oceana	68,220 51	7	1	1
39	Michigan Air Line Railway	26,400 00	2	1	1
40	Michigan Central System	7,758,650 00	421	215	95
41	Battle Creek & Sturgis				
42	Bay City & Battle Creek				
43	Canada Southern Bridge				
44	Detroit & Bay City				
45	Grand River Valley				
46	Jackson, Lansing & Saginaw				
47	Kalamazoo & South Haven				
48	Michigan Air Line Railroad				
49	Michigan Midland & Canada				
50	Saginaw Bay & Northwestern				
51	Toledo, Canada Southern & Detroit				
52	Milwaukee, Lake Shore & Western	2,578,200 00	112	52	17
53	Milwaukee & Northern	*c*	34	26	11
54	Mineral Range	120,517 26	7	8	2
55	Minneapolis, St. Paul & Sault Ste. Marie	2,175,879 55	63	32	16
56	Pontiac, Oxford & Northern	110,500 00	5	7	1
57	Saginaw, Tuscola & Huron	130,775 00	10	12	4
58	Saginaw Valley & St. Louis	23,900 00	3	2	1
59	Saginaw & Grand Rapids				
60	St. Clair Tunnel	60,932 66	4		
61	St. Joseph Valley		1	1	
62	Toledo, Ann Arbor & North Michigan	579,500 00	36	20	4
63	Toledo, Saginaw & Muskegon	96,800 00	6	2	4
64	Toledo & South Haven	24,450 00	3	2	2
65	Wabash (entire system)	5,951,985 00	397	188	99
66	Wisconsin Central (Gogebic & Montreal River)	*b*			
67	Detroit Union R. R. Depot & Station Co.				
	Total commercial roads	$49,208,946 70	3,195	1,690	645
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern	$30,315 72	3	1	
2	Crawford & Manistee River	9,150 00	1		
3	Grass Lake & Manistee River	8,000 00	1		
4	Hecla & Torch Lake	166,715 00	9	1	
5	Lake County	16,000 00	3		
6	Manistee & Luther		6	1	
7	North Branch & Sauble River	14,000 00	2		
8	Quincy & Torch Lake	29,340 00	2		
	Total ore and forest roads	$273,420 72	27	3	
	Total all roads	$49,482,367 42	3,222	1,693	645

b None.
c Not reported.

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EQUIPMENT.—CONTINUED.

Rolling stock.—Number.							Number of locomotives equipped with train brake.	Cars equipped with power brakes.—Number.		Line number.
Box freight cars.	Stock cars.	Platform and coal cars.	Ore cars.	Conductors' way cars.	All other kinds of cars.	Total cars.		Passenger.	Freight.	
11,894	1,414	6,478	50	280	243	20,677	547	323	1,008	25
										26
										27
										28
										29
										30
										31
										32
										33
		5				6	1	1		34
4		92		2		98	2			35
5		175		3	10	193	7	5	2	36
		95		3	40	138	3			37
2		60	175		5	244	2			38
18		4				24	1	2		39
7,911	1,454	3,308	473	248	248	13,352	206	310	739	40
										41
										42
										43
										44
										45
										46
										47
										48
										49
										50
										51
2,433	55	1,334	950	56	103	5,040	108	69	1,430	52
637	10	180	145	22	27	1,056	34	37	*b*	53
66		99		1	11	187	5	10	*b*	54
3,010	25	815	148	43	65	4,154	62	48		55
46	4	61		1	1	121	5	8	*b*	56
95	9	198		3		321	10	12		57
10		40		2		55	3	3		58
										59
				6	25	31	4			60
		1				2	1			61
681		375		17	26	1,123	34	24	*b*	62
80		52		2		140	6	6	*b*	63
12		16			13	45	2	4	2	64
7,477	1,322		4,237	211	83	13,667	363	287	518	65
										66
										67
57,546	6,412	24,463	14,494	1,705	2,068	108,983	2,729	2,384	8,297	
		57			14	72				1
		34			80	34				2
						80				3
4		73	290	3	4	375				4
					40	40				5
2		15		3	236	257				6
		50				50				7
		7	30		1	38	2			8
6		236	320	6	325	896	2			
57,552	6,412	24,699	14,814	1,711	2,413	109,879	2,731	2,384	8,297	

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14.—STATIONS AND EMPLOYES.

Line No.	Railroads.	Stations.		Employés.	
		Total.	In Michigan.	Total.	In Michigan.
1	Au Sable & Northwestern	13	13	150	150
2	Chicago, Detroit & Canada Grand Trunk Junction	12	12	325	325
3	Chicago & Grand Trunk	92	46	3,010	2,011
4	Chicago, Kalamazoo & Saginaw	12	12	48	48
5	Chicago & Northwestern	696	37	19,587	1,913
6	Chicago & West Michigan	114	108	2,108	2,047
7	Cincinnati, Jackson & Mackinaw	83	26	662	310
8	Cincinnati, Saginaw & Mackinaw	21	21	144	144
9	Cincinnati, Wabash & Michigan	60	8	700	65
10	Detroit, Bay City & Alpena	30	30	325	325
11	Detroit, Grand Haven & Milwaukee	43	42	1,096	1,096
12	Detroit, Lansing & Northern	84	84	1,105	1,100
13	Grand Rapids, Lansing & Detroit				
14	Saginaw & Western				
15	Duluth, South Shore & Atlantic	51	43	1,647	1,584
16	Flint & Pere Marquette	140	140	2,013	2,013
17	Frankfort & Southeastern	11	11	35	35
18	Grand Rapids & Indiana	140	108	2,191	1,884
19	Muskegon, Grand Rapids & Indiana				
20	Traverse City				
21	Hancock & Calumet	6	6	96	96
22	Indiana & Lake Michigan	10	6	53	36
23	Jefferson Avenue	6	6	11	11
24	Lake Shore & Michigan Southern System	327	139	13,993	2,061
25	Detroit & Chicago				
26	Detroit, Hillsdale & Southwestern				
27	Detroit, Monroe & Toledo				
28	Fort Wayne & Jackson				
29	Kalamazoo, Allegan & Grand Rapids				
30	Kalamazoo & White Pigeon				
31	Northern Central Michigan				
32	Sturgis, Goshen & St. Louis				
33	Lowell & Hastings	3	3	16	16
34	Manistee & Grand Rapids	2	2	25	25
35	Manistee & Northeastern	18	18	137	137
36	Manistique	8	8	39	39
37	Mason & Oceana	6	6	50	50
38	Michigan Air Line Railway	20	20	161	161
39	Michigan Central System	450	300	9,979	6,471
40	Battle Creek & Sturgis				
41	Bay City & Battle Creek				
42	Canada Southern Bridge				
43	Detroit & Bay City				
44	Grand River Valley				
45	Jackson, Lansing & Saginaw				
46	Kalamazoo & South Haven				
47	Michigan Air Line Railroad				
48	Michigan Midland & Canada				
49	Saginaw Bay & Northwestern				
50	Toledo, Canada Southern & Detroit				
51	Milwaukee, Lake Shore & Western	188	14	2,215	289
52	Milwaukee & Northern	71	17	976	175
53	Mineral Range	4	4	98	98
54	Minneapolis, St. Paul & Sault Ste. Marie	100	17	1,583	326
55	Pontiac, Oxford & Northern	22	22	109	109
56	Saginaw, Tuscola & Huron	16	16	86	86
57	Saginaw Valley & St. Louis	14	14	53	53
58	Saginaw & Grand Rapids				
59	St. Clair Tunnel	2	1	46	23
60	St. Joseph Valley	4	4	8	8
61	Toledo, Ann Arbor & North Michigan	62	60	663	597
62	Toledo, Saginaw & Muskegon	25	25	104	104

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STATIONS AND EMPLOYES.—CONTINUED.

Employés classified.—Number.									Line No.
Baggage-men.	Brake-men.	Con-ductors.	Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Others.	
1	11	11	15	15	85	7		5	1
5	38	18	21	23	84	2	30	110	2
35	248	104	153	149	867	589	109	756	3
	2	2	2	2	20		2	18	4
336	1,319	729	1,071	1,179	5,378	3,758	717	5,050	5
17	149	73	71	79	852	155	108	599	6
6	46	24	35	33	217	78	8	215	7
2	8	5	9	12	44	2	12	50	8
6	41	18	41	43	324	120	28	79	9
2	50	25	25	25	153	15	1	29	10
23	62	28	45	46	370	76	41	405	11
17	66	42	44	47	395	133	26	335	12
									13
									14
12	106	46	71	72	560	349	84	347	15
27	178	77	114	112	499	291	125	590	16
1	2	2	2	2	22	1		3	17
24	135	78	95	96	613	271	110	769	18
									19
									20
2	11	4	5	6	30	14	6	18	21
2	2	2	2	2	30			12	22
1		4	4			1		1	23
183	704	352	696	712	1,735	1,240	1,262	7,109	24
									25
									26
									27
									28
									29
									30
									31
									32
	1	1	1	1	5	1		6	33
	4	2	2	2		2	1	12	34
3	15	7	7	7	45	8	5	40	35
	6	3	3	3	15			9	36
	12	1	7	7	17	4	2		37
3	13	10	4	4	77	2	1	47	38
78	618	340	525	550	2,523	946	695	3,704	39
									40
									41
									42
									43
									44
									45
									46
									47
									48
									49
									50
18	154	81	110	135	853	380	75	429	51
11	75	42	58	60	229	285	41	175	52
4	8	4	5	6	22	13	12	19	53
10	110	54	80	83	697	244	23	282	54
2	4	3	3	3	51	16		27	55
1	6	4	5	5	34	8		23	56
1	3	3	4	6	25			11	57
									58
	6	4	10	10	3		6	10	59
	1	1	1	1				1	60
7	57	27	39	39	177	120	23	193	61
2	6	4	4	4	48	2	1	33	62

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14.—STATIONS AND EMPLOYES.—CONTINUED.

Line No.	Railroads.	Stations.		Employés.	
		Total.	In Michigan.	Total.	In Michigan.
63	Toledo & South Haven	6	6	31	31
64	Wabash (Detroit division) a	455	16	416	416
65	Wisconsin Central (Gogebic & Montreal River)	3	3	44	44
66	Detroit Union Railroad Depot & Station Company				
	Total commercial roads	3,369	1,479	66,097	26,507
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern	5	5	11	11
2	Crawford & Manistee River	2	2	31	31
3	Grass Lake & Manistee River			23	22
4	Hecla & Torch Lake			121	121
5	Lake County			21	21
6	Manistee & Luther	3	3	106	106
7	North Branch & Sauble River			9	9
8	Quincy & Torch Lake			10	10
	Total ore and forest roads	10	10	331	331
	Total all roads	3,379	1,489	66,428	26,838

a Michigan employés only.

15.—PERMANENT WAY.

Line number.	Railroads.	Bridge structures.			
		Wooden.		Stone or iron.	
		No.	Length, feet.	No.	Length, feet.
1	Au Sable & Northwestern	2	480		
2	Bay City Belt Line				
3	Chicago, Detroit & Canada Grand Trunk Junction			6	792
4	Chicago & Grand Trunk			20	1,717
5	Chicago, Kalamazoo & Saginaw	38	1,430		
6	Chicago & Northwestern	28	3,210	9	843
7	Chicago & West Michigan	9	856	7	1,926
8	Cincinnati, Jackson & Mackinaw	1	144		
9	Cincinnati, Saginaw & Mackinaw	1	299	2	64
10	Cincinnati, Wabash & Michigan				
11	Detroit, Bay City & Alpena	14	1,409	2	496
12	Detroit, Grand Haven & Milwaukee			21	2,777
13	Detroit, Lansing & Northern	7	603	24	2,652
14	Grand Rapids, Lansing & Detroit				
15	Saginaw & Western				
16	Duluth, South Shore & Atlantic	27	2,278	7	490
17	Flint & Pere Marquette	17	1,604	21	2,314
18	Frankfort & Southeastern	1	28		
19	Grand Rapids & Indiana	10	1,139	19	896
20	Muskegon, Grand Rapids & Indiana				
21	Traverse City				
22	Hancock & Calumet			3	560
23	Indiana & Lake Michigan				
24	Jefferson Avenue	2	250		

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STATIONS AND EMPLOYES.—CONTINUED.

Employés classified.—Number.									Line No.
Baggage-men.	Brake-men.	Con-ductors.	Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Others.	
1	1	2	2	2	12	1	----	10	63
9	45	26	33	35	134	18	37	79	64
1	5	2	4	4	17	----	6	5	65
----	----	----	----	----	----	----	----	----	66
853	4,322	2,265	3,428	3,621	17,262	9,132	3,597	21,616	
----	----	----	2	2	4	----	----	3	1
----	1	----	1	1	26	----	----	2	2
----	1	----	1	1	----	----	----	19	3
----	14	4	6	6	69	8	8	6	4
----	3	----	3	3	2	2	6	2	5
----	13	3	7	7	50	5	3	18	6
----	1	----	1	1	4	----	----	2	7
----	2	----	2	1	1	----	3	1	8
----	35	7	23	22	156	15	20	53	
853	4,358	2,272	3,451	3,643	17,418	9,147	3,617	21,669	

PERMANENT WAY.—CONTINUED.

Bridge structures.								Railroad crossings.			Line number.
Combination.		Trestles.		Draw bridges.		Total.		At grade.	Over or under.	Total.	
No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.	No.	No.	
----	----	3	1,245	----	----	5	1,734	1	----	1	1
----	----	1	22	----	----	1	22	1	----	1	2
----	----	----	----	1	128	7	915	6	----	6	3
----	----	54	2,049	----	----	74	3,766	16	1	17	4
----	----	----	----	----	----	33	1,490	3	----	3	5
2	353	307	26,341	----	----	346	30,747	15	5	20	6
4	689	185	21,487	5	543	210	25,501	16	1	17	7
----	----	89	21,926	----	----	90	22,070	10	3	13	8
2	281	31	8,796	3	370	39	9,810	9	----	9	9
----	----	8	1,355	----	----	8	1,355	----	2	2	10
2	1,437	6	1,106	----	----	24	4,888	1	----	1	11
----	----	42	3,045	2	135	65	5,957	13	1	14	12
----	----	57	4,541	----	----	88	7,796	13	----	13	13
----	----	----	----	----	----	----	----	----	----	----	14
----	----	----	----	----	----	----	----	----	----	----	15
----	----	240	39,698	----	----	274	42,456	25	3	28	16
9	939	124	20,334	4	639	175	25,880	27	2	29	17
----	----	3	410	----	----	4	438	1	----	1	18
7	1,091	147	13,006	----	----	183	16,132	23	1	24	19
----	----	----	----	----	----	----	----	----	----	----	20
----	----	----	----	----	----	----	----	----	----	----	21
----	----	17	4,450	----	----	20	5,010	2	----	2	22
----	----	20	1,774	----	----	20	1,774	----	1	1	23
----	----	----	----	----	----	2	250	----	----	----	24

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15.—PERMANENT WAY.—CONTINUED.

Line number.	Railroads.	Bridge structures.			
		Wooden.		Stone or iron.	
		No.	Length, feet.	No.	Length, feet.
25	Lake Shore & Michigan Southern System	31	4,119	14	1,488
26	Detroit & Chicago				
27	Detroit, Hillsdale & Southwestern				
28	Detroit, Monroe & Toledo				
29	Fort Wayne & Jackson				
30	Kalamazoo, Allegan & Grand Rapids				
31	Kalamazoo & White Pigeon				
32	Northern Central Michigan				
33	Sturgis, Goshen & St. Louis				
34	Lowell & Hastings				
35	Manistee & Grand Rapids				
36	Manistee & Northeastern	10	482		
37	Manistique	2	240		
38	Mason & Oceana	3	450		
39	Michigan Air Line Railway	3	239	1	70
40	Michigan Central System	201	14,141	39	4,967
41	Battle Creek & Sturgis				
42	Bay City & Battle Creek				
43	Canada Southern Bridge				
44	Detroit & Bay City				
45	Grand River Valley				
46	Jackson, Lansing & Saginaw				
47	Kalamazoo & South Haven				
48	Michigan Air Line Railroad				
49	Michigan Midland & Canada				
50	Saginaw Bay & Northwestern				
51	Toledo, Canada Southern & Detroit				
52	Milwaukee, Lake Shore & Western	12	636	1	45
53	Milwaukee & Northern	6	788	1	117
54	Mineral Range				
55	Minneapolis, St. Paul & Sault Ste. Marie	13	1,932		
56	Pontiac, Oxford & Northern	3	210		
57	Saginaw, Tuscola & Huron	11	906		
58	Saginaw Valley & St. Louis	2	68		
59	Saginaw & Grand Rapids				
60	St. Clair Tunnel				
61	St. Joseph Valley				
62	Toledo, Ann Arbor & North Michigan	2	92		
63	Toledo, Saginaw & Muskegon	4	375		
64	Toledo & South Haven	11	1,140		
65	Wabash (Detroit division)	93	730		
66	Wisconsin Central (Gogebic & Montreal River)	4	314		
67	Detroit Union Railroad Depot & Station Company				
	Total commercial roads	568	40,584	197	22,144
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern	3	96		
2	Crawford & Manistee River				
3	Grass Lake & Manistee River				
4	Hecla & Torch Lake				
5	Lake County	2	650		
6	Manistee & Luther	3	150		
7	North Branch & Sauble River				
8	Quincy & Torch Lake				
	Total ore and forest roads	8	896		
	Total all roads	576	41,480	197	22,144

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PERMANENT WAY.—CONTINUED.

Bridge structures.								Railroad crossings.			Line number.
Combination.		Trestles.		Draw bridges.		Total.		At grade.	Over or under.	Total.	
No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.	No.	No.	
.....	.....	81	11,754	2	339	128	17,700	32	1	33	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
.....	.....	10	670	.....	.....	10	670	2	.....	2	34
2	.....	1	.....	.....	.....	3	.....	.....	1	1	35
.....	.....	3	1,580	1	160	14	2,222	5	.....	5	36
.....	.....	.....	.....	.....	.....	2	240	1	.....	1	37
.....	.....	.....	.....	.....	.....	3	450	.....	.....	.....	38
.....	.....	73	5,991	.....	.....	77	6,300	6	.....	6	39
5	3,358	77	7,797	10	1,368	332	31,631	48	6	54	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
.....	.....	31	3,376	.....	.....	44	4,047	1	3	4	52
.....	.....	158	13,677	.....	.....	165	14,580	8	1	9	53
.....	.....	6	645	1	180	7	825	2	.....	2	54
.....	.....	121	13,617	.....	.....	134	15,549	7	1	8	55
.....	.....	18	1,510	.....	.....	21	1,720	3	1	4	56
.....	.....	.....	.....	1	35	12	941	2	.....	2	57
.....	.....	6	478	.....	.....	8	541	1	.....	1	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
.....	.....	11	1,529	.....	.....	11	1,529	.....	.....	.....	61
3	343	168	10,507	.....	.....	173	10,942	13	1	14	62
.....	.....	70	6,837	.....	.....	74	7,212	6	.....	6	63
.....	.....	.....	.....	.....	.....	11	1,140	1	.....	1	64
2	364	74	4,919	.....	.....	169	6,013	10	.....	10	65
.....	.....	7	3,031	.....	.....	11	3,345	4	4	8	66
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67
38	8,855	2,249	259,503	30	3,892	3,082	334,978	334	39	373	
.....	.....	2	700	.....	.....	5	796	.....	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	5	1,500	.....	.....	5	1,500	2	.....	2	3
.....	.....	.....	.....	.....	.....	2	650	1	.....	1	4
.....	.....	1	60	.....	.....	4	210	2	.....	2	5
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	6
.....	.....	7	991	.....	.....	7	991	.....	1	1	
.....	.....	15	3,251	.....	.....	23	4,147	6	1	7	
38	8,855	2,264	262,754	30	3,892	3,105	339,125	340	40	380	

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15A.—PERMANENT WAY.—CONTINUED.

Line number.	Railroads.	Highway crossings.—Number.					
		At grade.	With gates or signals.	Over or under.	Eighteen feet above track.	Less than 18 feet above track.	Total.
1	Au Sable & Northwestern	22					22
2	Bay City Belt Line	21					21
3	Chicago, Detroit & Canada Grand Trunk Junction	90	19				90
4	Chicago & Grand Trunk	263	11	4	2		267
5	Chicago, Kalamazoo & Saginaw	64	1				84
6	Chicago & Northwestern	169	11	11			180
7	Chicago & West Michigan	512	26	25	11	1	537
8	Cincinnati, Jackson & Mackinaw	187	1	6	1		193
9	Cincinnati, Saginaw & Mackinaw	96	12				96
10	Cincinnati, Wabash & Michigan	56	4	2	1		58
11	Detroit, Bay City & Alpena	93					93
12	Detroit, Grand Haven & Milwaukee	251	58	23	9	5	274
13	Detroit, Lansing & Northern	439	9	19	8		458
14	Grand Rapids, Lansing & Detroit						
15	Saginaw & Western						
16	Duluth, South Shore & Atlantic	155	21	12	2		167
17	Flint & Pere Marquette	783	29	12	3		795
18	Frankfort & Southeastern	22					22
19	Grand Rapids & Indiana	597	42	7	5		604
20	Muskegon, Grand Rapids & Indiana						
21	Traverse City						
22	Hancock & Calumet	12		1		1	13
23	Indiana & Lake Michigan	24		3	3		27
24	Jefferson Avenue	12					12
25	Lake Shore & Michigan Southern System	874	44	11	7		885
26	Detroit & Chicago						
27	Detroit, Hillsdale & Southwestern						
28	Detroit, Monroe & Toledo						
29	Fort Wayne & Jackson						
30	Kalamazoo, Allegan & Grand Rapids						
31	Kalamazoo & White Pigeon						
32	Northern Central Michigan						
33	Sturgis, Goshen & St. Louis						
34	Lowell & Hastings	17					17
35	Manistee & Grand Rapids						
36	Manistee & Northeastern	46	2				46
37	Manistique	3					3
38	Mason & Oceana	11					11
39	Michigan Air Line Railway	131	2	2	2		133
40	Michigan Central System	1,812	179	54	28	9	1,366
41	Battle Creek & Sturgis						
42	Bay City & Battle Creek						
43	Canada Southern Bridge						
44	Detroit & Bay City						
45	Grand River Valley						
46	Jackson, Lansing & Saginaw						
47	Kalamazoo & South Haven						
48	Michigan Air Line						
49	Michigan Midland & Canada						
50	Saginaw Bay & Northwestern						
51	Toledo, Canada Southern & Detroit						
52	Milwaukee, Lake Shore & Western	17	2				17
53	Milwaukee & Northern	50					50
54	Mineral Range	18	2	2	1		20
55	Minneapolis, St. Paul & Sault Ste. Marie	47		2	2		49
56	Pontiac, Oxford & Northern	104		1	1		105
57	Saginaw, Tuscola & Huron	82	4				82
58	Saginaw Valley & St. Louis	60					60
59	Saginaw & Grand Rapids						
60	St. Clair Tunnel						
61	St. Joseph Valley	10					10
62	Toledo, Ann Arbor & North Michigan	294	5	4	3		298
63	Toledo, Saginaw & Muskegon	125		4	2		129

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PERMANENT WAY.—CONTINUED.

Fencing.		Maintenance.				Renewals.					
						New rails laid in Michigan.		Ties.—Number.			
Completed, miles. Number.	Required, miles. Number.	Trestles replaced with earth work. Linear feet.	Track sections in Michigan. Number.	Average length of sections. Miles.	Average number of men to each section.	Tons.	Miles of track.	Entire line.	In Michigan.	Av. per mile in Michigan.	Line number.
			6		3			5,000	5,000	131	1
10			1	6.29	4		87	2,300	2,300		2
123.74			12	5	4	47	.45	20,411	20,411	344	3
456		507	45	5	5	2,425	23.00	184,403	123,203	550	4
87			7	6.5	3			1,500	1,500		5
624.62	251.10	352.30	65	6	6	16,966	153.00	1,291,701	121,228	302	6
814	9	2,300	94	5.12	3	3,922	41.60	196,411	184,435	409	7
308	.76		22	7.05	4			50,433	30,939	206	8
116			8	6.63	4			5,728	5,728	108	9
66.80			5	6	4	168	1.55	105,170	12,545	420	10
35		678	26	8	3			27,955	27,955		11
335			37	5.1	4	350	3.42	92,573	92,573	490	12
646			65	5.50	3	1,105	11.60	121,270	121,270	376	13
											14
											15
131	730		90	5	3	547	5.64	123,289	120,289	228	16
669.95	67.50		117	5.33	4	1,532	16.94	280,422	280,422	298	17
.23	22		4	6	3			1,278	1,278		18
349	87	514	100	4.38	4	501	5.31	144,978	139,499	336	19
											20
											21
6.25	34.25		6	4	4	28	.29	4,477	4,477	122	22
44.81	5.29		5	5	4	22	.24	1,558	839		23
											24
1,163.66		576	104	5.6	4	24,133	234.46	776,043	186,566	537	25
											26
											27
											28
											29
											30
											31
											32
											33
20.50	4.50		1	12.50	4			76	76	6	34
			2	11.76	4	2,830	30.15				35
37	83		7	7	5						36
			6	8	2			20,000	20,000		37
20	7		4	7	4	96	2	3,000	3,000	111	38
215			14	7	4	140	1.33	47,353	47,353	448	39
1,970	39	234	248	4.45	4	2,362	18.88	759,543	533,376	480	40
											41
											42
											43
											44
											45
											46
											47
											48
											49
											50
											51
33.30	148.70		14	7	3	2,849	29	279,696	59,797	424	52
44	158		15	7	4			102,800	19,800	283	53
3	31		2	7	5	9	.12	12,758	12,758	750	54
40	344		28	7	3	319	6.40	70,466	1,557	90	55
198.7	6.30		16	6.26	3			39,362	39,362	398	56
183.14		281	11	6	3	4,500	51.68	93,154	93,154	1,399	57
78.14			7	5.63	3			11,430	11,430	254	58
											59
											60
12	8		1	10	3	10		237	237	23	61
507	30	96	38	7	4			47,874	44,702	168	62
182.88	9.11		10	9.6	4			7,529	7,529	78	63

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15A.—PERMANENT WAY.—CONTINUED.

Line number.	Railroads.	Highway crossings.—Number.					
		At grade.	With gates or signals.	Over or under.	Eighteen feet above track.	Less than 18 feet above track.	Total.
64	Toledo & South Haven	21					21
65	Wabash	155	8				155
66	Wisconsin Central (Gogebic & Montreal River)	5	1	1			6
67	Detroit Union Railroad Depot & Station Co.						
	Total commercial roads	7,250	493	206	91	16	7,456
	ORE AND FOREST ROADS.						
1	Bear Lake & Eastern	13					13
2	Crawford & Manistee River	3		3			6
3	Grass Lake & Manistee River	4					4
4	Hecla & Torch Lake	9	2	2			11
5	Lake County						
6	Manistee & Luthur						
7	North Branch & Sauble River	3					3
8	Quincy & Torch Lake						
	Total ore and forest roads	32	2	5			37
	Total all roads	7,282	495	211	91	16	7,493

15B.—PERMANENT WAY.—CONTINUED.

Line number.	Railroads.	Renewal of timber culverts.			
		With stone or iron pipe. Number.	With sewer pipe. Number.	With timber. Number.	Total number renewed.
1	Au Sable & Northwestern				
2	Chicago, Detroit & Canada Grand Trunk Junction				
3	Chicago & Grand Trunk	10			10
4	Chicago, Kalamazoo & Saginaw				
5	Chicago & Northwestern			18	18
6	Chicago & West Michigan	2	13	1	16
7	Cincinnati, Jackson & Mackinaw				
8	Cincinnati, Saginaw & Mackinaw				
9	Cincinnati, Wabash & Michigan				
10	Detroit, Bay City & Alpena				
11	Detroit, Grand Haven & Milwaukee	6	1		7
12	Detroit, Lansing & Northern	2	13	1	16
13	Grand Rapids, Lansing & Detroit				
14	Saginaw & Western				
15	Duluth, South Shore & Atlantic			3	3
16	Flint & Pere Marquette		10	*a*	10
17	Frankfort & Southeastern				
18	Grand Rapids & Indiana	3	15	11	29
19	Muskegon, Grand Rapids & Indiana				
20	Traverse City				
21	Hancock & Calumet			1	1
22	Indiana & Lake Michigan				
23	Jefferson Avenue				

a 156,204 feet.

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PERMANENT WAY.—CONTINUED.

Fencing.		Maintenance.				Renewals.					Line number.
						New rails laid in Michigan.		Ties.—Number.			
Completed, miles. Number.	Required, miles. Number.	Trestles replaced with earth work. Linear feet.	Track sections in Michigan. Number.	Average length of sections. Miles.	Average number of men to each section.	Tons.	Miles of track.	Entire line.	In Michigan.	Av. per mile in Michigan.	
51	21		6	6	2						64
75.19		1,131	11	6.98	5	704	8	30,992	30,962	392	65
5.30	1.33		2	6.73	7			3,766	3,766	279	66
											67
9,678.98	2,097.84	6,619.30	12.63	5.65	3.89	65,545	645.98	4,916,941	2,351,332	329	
11	26		1	18	4						1
			1		6			11,000	11,000	1,100	2
	24		1	12	5						3
15			2		6	2		4,000	4,000		4
			1	11	6						5
			5	10	4			3,798	3,798		6
			1	10							7
7.35	4.65		1	6	4						8
33.35	54.65		14	10.11	4.84	2		18,798	18,798	132	
9,712.33	2,152.49	6,619.30	12.77	5.69	3.90	65,547	645.98	4,935,739	2,370,130	326	

PERMANENT WAY.—CONTINUED.

New bridges.								Line number.
Wooden.		Iron or stone.		Combination.		Total number.	Total length, linear feet.	
Number.	Length, linear feet.	Number.	Length, linear feet.	Number.	Length, linear feet.			
								1
								2
								3
								4
4	282					4	282	5
9	934	4	228			13	1,162	6
								7
								8
								9
1	15					1	15	10
								11
2	168					2	168	12
								13
								14
								15
5	366			1	5,005	6	5,371	16
								17
1	112					1	112	18
								19
								20
								21
								22
								23

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15B.—PERMANENT WAY.—CONTINUED.

Line number.	Railroads.	Renewal of timber culverts.			
		With stone or iron pipe. Number.	With sewer pipe. Number.	With timber. Number.	Total number renewed.
24	Lake Shore & Michigan Southern System			27	27
25	Detroit & Chicago				
26	Detroit, Hillsdale & Southwestern				
27	Detroit, Monroe & Toledo				
28	Fort Wayne & Jackson				
29	Kalamazoo, Allegan & Grand Rapids				
30	Kalamazoo & White Pigeon				
31	Northern Central Michigan				
32	Sturgis, Goshen & St. Louis				
33	Lowell & Hastings				
34	Manistee & Grand Rapids				
35	Manistee & Northeastern				
36	Manistique				
37	Mason & Oceana				
38	Michigan Air Line Railway	6			6
39	Michigan Central System	12			12
40	Battle Creek & Sturgis				
41	Bay City & Battle Creek				
42	Canada Southern Bridge				
43	Detroit & Bay City				
44	Grand River Valley				
45	Jackson, Lansing & Saginaw				
46	Kalamazoo & South Haven				
47	Michigan Air Line Railroad				
48	Michigan Midland & Canada				
49	Saginaw Bay & Northwestern				
50	Toledo, Canada Southern & Detroit				
51	Milwaukee, Lake Shore & Western				
52	Milwaukee & Northern				
53	Mineral Range				
54	Minneapolis, St. Paul & Sault Ste. Marie				
55	Pontiac, Oxford & Northern				
56	Saginaw, Tuscola & Huron		10		10
57	Saginaw Valley & St. Louis				
58	Saginaw & Grand Rapids				
59	St. Clair Tunnel				
60	St. Joseph Valley				
61	Toledo, Ann Arbor & North Michigan	6	26	5	37
62	Toledo, Saginaw & Muskegon				
63	Toledo & South Haven				
64	Wabash			18	18
65	Wisconsin Central (Gogebic & Montreal River)				
66	Detroit Union Railroad Depot & Station Company				
	Total commercial roads	47	88	85	220
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern				
2	Crawford & Manistee River				
3	Grass Lake & Manistee River				
4	Hecla & Torch Lake				
5	Lake County				
6	Manistee & Luther				
7	North Branch & Sauble River				
8	Quincy & Torch Lake				
	Total ore and forest roads				
	Total all roads	47	88	85	220

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PERMANENT WAY.—CONTINUED.

New bridges.								
Wooden.		Iron or stone.		Combination.		Total number.	Total length, linear feet.	Line number.
Number.	Length, linear feet.	Number.	Length, linear feet.	Number.	Length, linear feet.			
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
1	1,100					1	1,100	35
								36
								37
								38
								39
								40
								41
								42
								43
								44
								45
								46
								47
								48
								49
								50
		1	45			1	45	51
								52
								53
								54
								55
		1	76			1	76	56
5	465					5	465	57
								58
								59
								60
								61
								62
								63
1	341					1	341	64
								65
								66
29	3,783	6	349	1	5,005	36	9,137	
								1
								2
								3
								4
								5
								6
								7
								8
29	3,783	6	349	1	5,005	36	9,137	

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16.—TAXES PAYABLE JULY 1, 1892.

Line No.	Railroads.	Miles of road. Michigan.
1	Au Sable & Northwestern	106
2	Chicago, Detroit & Canada Grand Trunk Junction	59.37
3	Chicago & Grand Trunk	224
4	Chicago, Kalamazoo & Saginaw	44.20
5	Chicago & Northwestern *a*	396.55
6	Chicago & West Michigan	447.04
7	Cincinnati, Jackson & Mackinaw	172.18
8	Cincinnati, Saginaw & Mackinaw	53
9	Cincinnati, Wabash & Michigan	33.40
10	Detroit, Bay City & Alpena	209.32
11	Detroit, Grand Haven & Milwaukee *c*	189
12	Detroit, Lansing & Northern	328.68
13	Grand Rapids, Lansing & Detroit	
14	Saginaw & Western	
15	Duluth, South Shore & Atlantic	476.83
16	Flint & Pere Marquette	772.21
17	Frankfort & Southeastern	26.95
18	Grand Rapids & Indiana	382.01
19	Muskegon, Grand Rapids & Indiana	36.85
20	Traverse City	25
21	Hancock & Calumet	21.61
22	Indiana & Lake Michigan	25.05
23	Jefferson Avenue	5.62
24	Lake Shore & Michigan Southern System *c*	187.30
25	Detroit & Chicago	62.94
26	Detroit, Hillsdale & Southwestern	65.20
27	Detroit, Monroe & Toledo	54.67
28	Fort Wayne & Jackson	44.54
29	Kalamazoo, Allegan & Grand Rapids	58.42
30	Kalamazoo & White Pigeon	36.57
31	Northern Central Michigan	61.14
32	Sturgis, Goshen & St. Louis	10.55
33	Lowell & Hastings	12.50
34	Manistee & Grand Rapids *b*	23.52
35	Manistee & Northeastern	59.61
36	Manistique	48
37	Mason & Oceana	27
38	Michigan Air Line Railway	105.60
39	Michigan Central System *c*	221
40	Battle Creek & Sturgis	41
41	Bay City & Battle Creek	18
42	Canada Southern Bridge	3.66
43	Detroit & Bay City	151.42
44	Grand River Valley *c*	83.79
45	Jackson, Lansing & Saginaw	295.10
46	Kalamazoo & South Haven	39.50
47	Michigan Air Line Railroad	109.10
48	Michigan Midland & Canada	14.68
49	Saginaw Bay & Northwestern	87.21
50	Toledo, Canada Southern & Detroit	47.27
51	Milwaukee, Lake Shore & Western	*d* 120.23
52	Milwaukee & Northern	60.75
53	Mineral Range	17
54	Minneapolis, St. Paul & Sault Ste. Marie	192.35
55	Ontonagon & Brule River *e*	46
56	Pontiac, Oxford & Northern	100.20
57	Saginaw, Tuscola & Huron	66.57
58	Saginaw Valley & St. Louis	45.10
59	Saginaw & Grand Rapids	
60	St. Clair Tunnel	1.01
61	St. Joseph Valley	10
62	Toledo, Ann Arbor & North Michigan	279.91

a Actual earnings.
b Exempt from taxation 1891.
c Special charter.
d Average number of miles operated, 107.47.
e Paid by Milwaukee & Northern.

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TAXES PAYABLE JULY 1, 1892.—CONTINUED.

Gross earnings as reported for Michigan.	Gross earnings per mile of road operated.	Per cent of taxation on taxable income.	Total taxes assessed for Michigan.	Taxes per mile of road operated in Michigan.	Line No.
$80,573 53	$760 12	2	$1,611 47	$15 20	1
264,179 14	4,449 71	2.32	6,144 27	103 49	2
2,583,392 00	11,533 00	3.13	80,935 68	361 32	3
51,637 07	1,168 08	2	1,032 54	23 36	4
3,002,798 28	7,572 30	2.37	81,304 94	205 03	5
1,631,768 14	3,650 16	2.22	36,328 80	81 25	6
359,541 62	2,068 17	2.02	7,266 74	42 20	7
184,731 05	3,435 49	2.21	4,088 28	77 13	8
99,577 48	2,489 44	2.16	2,155 44	64 53	9
417,674 26	1,995 33	2	8,353 49	39 90	10
1,200,998 23	6,354 49	2.09	25,171 40	133 18	11
1,254,099 74	3,874 50	2.24	28,115 69	86 86	12
					13
					14
1,750,988 13	3,672 14	2.22	39,006 40	81 80	15
2,544,758 48	3,295 42	2.19	55,896 86	72 38	16
34,149 63	1,501 08	2	683 99	30 00	17
2,107,423 40	5,516 67	2.45	51,762 40	135 49	18
180,706 60	4,397 63	2.38	4,315 70	117 11	19
43,497 10	1,660 85	2	869 94	33 46	20
175,925 88	8,140 95	2.77	4,876 04	225 64	21
21,273 18	849 23	2	425 46	16 98	22
1,973 85	351 21	2	39 48	6 98	23
4,312,271 86	23,023 33	1.08	46,743 60	249 56	24
36,194 97	575 08	2	723 90	11 50	25
41,340 26	641 72	2	826 81	12 83	26
541,756 46	9,716 76	3.05	16,203 25	296 38	27
100,076 08	2,246 85	2.05	2,056 50	46 17	28
153,705 73	2,634 64	2.12	3,258 44	55 78	29
112,362 01	3,072 51	2.17	2,443 35	66 81	30
92,540 09	1,513 57	2	1,850 80	30 27	31
6,112 51	579 38	2	122 25	11 58	32
10,554 88	844 39	2	211 10	16 88	33
18,862 13	800 19				34
115,041 09	1,917 96	2	2,300 82	38 59	35
128,542 75	2,573 81	2.11	2,608 57	54 67	36
43,205 61	1,603 54	2	865 91	32 07	37
154,310 52	1,461 27	2	3,086 21	29 22	38
4,886,932 79	22,112 81	2.74	134,083 20	606 71	39
19,917 82	589 28	2	398 36	11 78	40
8,317 00	462 05	2	166 34	9 24	41
1,228 69	335 71	2	24 57	6 71	42
889,484 32	5,544 07	2.45	20,641 93	136 32	43
339,614 81	4,053 16	4.39	14,934 00	178 23	44
1,602,026 99	5,428 74	2.44	39,207 81	132 86	45
57,052 50	1,444 36	2	1,141 05	28 37	46
262,840 56	2,409 17	2.09	5,480 01	50 22	47
8,473 44	577 20	2	169 47	11 54	48
107,816 77	1,310 26	2	2,156 34	24 73	49
632,840 37	13,388 84	3.25	20,568 61	435 55	50
533,868 60	4,440 38	2.23	12,791 96	106 38	51
311,062 70	5,119 97	2.41	7,509 38	123 61	52
146,504 63	8,617 92	2.84	4,160 19	244 71	53
538,690 71	2,774 53	2.14	11,418 52	59 26	54
49,015 04	1,065 54	2	980 30	21 31	55
107,278 15	1,072 78	2	2,145 56	21 41	56
106,761 73	1,604 05	2	2,135 63	32 81	57
93,595 77	2,075 30	2.01	1,888 89	41 88	58
					59
16,155 00			543 20		60
4,628 75	462 87	2	92 58	9 26	61
960,105 84	3,430 05	2.20	21,208 58	75 75	62

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16.—TAXES PAYABLE JULY 1, 1892.—CONTINUED.

Line No.	Railroads.	Miles of road. Michigan.
63	Toledo, Saginaw & Muskegon	96
64	Toledo & South Haven	36.60
65	Wabash	79.70
66	Wisconsin Central (Gogebic & Montreal River)	13.47
67	Detroit Union Railroad Depot & Station Company	3.34
	Total commercial roads	7,168.39
	ORE AND FOREST ROADS.	
1	Bear Lake & Eastern	18
2	Crawford & Manistee River	10
3	Grass Lake & Manistee River	12
4	Hecla & Torch Lake	7.50
5	Lake County	11
6	Manistee & Luther	64
7	North Branch & Saubis River	10
8	Quincy & Torch Lake	6
	Total ore and forest roads	138.50
	Total all roads	7,306.89

17.—ACCIDENTS.

Line number.	Railroads.	Killed.			
		Passengers.	Employés.	Others.	Total.
1	Au Sable & Northwestern				
2	Chicago, Detroit & C. G. T. Junction		1	3	4
3	Chicago & Grand Trunk		2	10	12
4	Chicago, Kalamazoo & Saginaw				
5	Chicago & Northwestern		12	11	23
6	Chicago & West Michigan		3	6	9
7	Cincinnati, Jackson & Mackinaw			2	2
8	Cincinnati, Saginaw & Mackinaw		1	3	4
9	Cincinnati, Wabash & Michigan			1	1
10	Detroit, Bay City & Alpena	1	2	1	4
11	Detroit, Grand Haven & Milwaukee	1	1	2	4
12	Detroit, Lansing & Northern	1	2	5	8
13	Grand Rapids, Lansing & Detroit				
14	Saginaw & Western				
15	Duluth, South Shore & Atlantic		5	4	9
16	Flint & Pere Marquette		3	9	12
17	Frankfort & Southeastern				
18	Grand Rapids & Indiana		4	9	
19	Muskegon, Grand Rapids & Indiana				
20	Traverse City				
21	Hancock & Calumet				
22	Indiana & Lake Michigan				
23	Jefferson Avenue				

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TAXES PAYABLE JULY 1, 1892.—CONTINUED.

Gross earnings as reported for Michigan.	Gross earnings per mile of road operated.	Per cent of taxation on taxable income.	Total taxes assessed for Michigan.	Taxes per mile of road operated in Michigan.	Line No.
$115,225 13	$1,200 26	2	$2,304 50	$24 01	63
27,037 99	738 74	2	540 76	14 77	64
517,978 47	6,499 10	2.57	13,347 26	167 46	65
23,754 20	1,763 49	2	475 08	35 26	66
125,206 81	----------	2.5	3,130 17	----------	67
$36,292,598 86	$5,062 81	2.33	$847,349 73	$118 21	
$11,559 42	$842 19	2	$231 19	$12 84	1
13,183 96	1,318 40	2	263 68	26 37	2
8,120 26	675 02	2	162 41	13 53	3
100,427 76	13,390 36	3.25	3,267 11	435 61	4
14,421 95	1,311 08	2	288 44	26 22	5
105,193 96	2,805 17	2.14	2,254 85	60 12	6
9,074 56	907 46	2	181 49	18 15	7
15,808 68	2,634 78	2.12	335 22	55 87	8
$277,790 55	$2,005 71	2.51	$6,964 39	$50 43	
$36,570,389 41	$5,005 05	2.33	$854,334 12	$116 92	

ACCIDENTS.—CONTINUED.

Injured.				Total accidents.	Responsibility for accident.		Trespassers and tramps.	Drunk.	Suicides.	Line number.
Passengers.	Employés.	Others.	Total.		Clearly accidental.	From negligence or lack of caution.				
----------	1	----------	1	1	1	----------	----------	----------	----------	1
----------	14	7	21	25	7	18	3	----------	----------	2
5	37	16	58	70	30	40	12	3	----------	3
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	4
----------	30	4	34	57	1	56	14	----------	----------	5
5	5	10	20	29	22	7	10	----------	----------	6
----------	7	1	8	10	2	8	2	----------	----------	7
2	6	1	9	13	3	10	2	----------	----------	8
----------	10	2	12	13	4	9	2	----------	----------	9
1	1	----------	2	6	3	3	----------	1	----------	10
3	42	11	56	60	14	46	9	2	----------	11
2	1	3	6	14	1	13	4	----------	----------	12
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	13
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	14
----------	37	7	44	53	7	46	6	3	----------	15
3	21	8	32	44	4	40	11	2	----------	16
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	17
25	13	9	47	60	11	49	15	1	----------	18
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	19
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	20
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	21
----------	1	----------	1	1	----------	1	----------	----------	----------	22
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	23

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17.—ACCIDENTS.—CONTINUED.

Line number.	Railroads.	Killed.			
		Passengers.	Employés.	Others.	Total.
24	Lake Shore & Michigan Southern System			9	9
25	Detroit & Chicago				
26	Detroit, Hillsdale & Southwestern				
27	Detroit, Monroe & Toledo				
28	Fort Wayne & Jackson				
29	Kalamazoo, Allegan & Grand Rapids				
30	Kalamazoo & White Pigeon				
31	Northern Central Michigan				
32	Sturgis, Goshen & St. Louis				
33	Lowell & Hastings				
34	Manistee & Grand Rapids				
35	Manistee & Northeastern		1		1
36	Manistique		1		1
37	Mason & Oceana				
38	Michigan Air Line Railway			1	1
39	Michigan Central System	1	10	33	44
40	Battle Creek & Sturgis				
41	Bay City & Battle Creek				
42	Canada Southern Bridge				
43	Detroit & Bay City				
44	Grand River Valley				
45	Jackson, Lansing & Saginaw				
46	Kalamazoo & South Haven				
47	Michigan Air Line R. R.				
48	Michigan Midland & Canada				
49	Saginaw Bay & Northwestern				
50	Toledo, Canada Southern & Detroit				
51	Milwaukee, Lake Shore & Western		1	1	2
52	Milwaukee & Northern	1			1
53	Mineral Range		1		1
54	Minneapolis, St. Paul & Sault Ste. Marie		1		1
55	Pontiac, Oxford & Northern				
56	Saginaw, Tuscola & Huron				
57	Saginaw Valley & St. Louis				
58	Saginaw & Grand Rapids				
59	St. Clair Tunnel				
60	St. Joseph Valley				
61	Toledo, Ann Arbor & Northern Michigan		1	4	5
62	Toledo, Saginaw & Muskegon				
63	Toledo & South Haven				
64	Wabash			3	3
65	Wisconsin Central (Gogebic & Montreal River)			1	1
66	Detroit Union R. R. Depot & Station Co.				
	Total commercial roads	5	52	118	175
	ORE AND FOREST ROADS.				
1	Bear Lake & Eastern				
2	Crawford & Manistee River				
3	Dead River				
4	Grass Lake & Manistee River				
5	Hecla & Torch Lake				
6	Lake County				
7	Manistee & Luther				
8	North Branch & Sauble River				
9	Quincy & Torch Lake				
	Total ore and forest roads				
	Total all roads	5	52	118	175

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ACCIDENTS.—CONTINUED.

Injured.				Total accidents.	Responsibility for accident.		Trespassers and tramps.	Drunk.	Suicides.	Line number.
Passengers.	Employés.	Others.	Total.		Clearly accidental.	From negligence or lack of caution.				
	14	7	21	30	4	26	12			24
										25
										26
										27
										28
										29
										30
										31
										32
										33
										34
				1	1					35
	1		1	2	2					36
										37
	3		3	4	2	2		1		38
1	33	19	53	97	3	94	30	1		39
										40
										41
										42
										43
										44
										45
										46
										47
										48
										49
										50
	8	2	10	12	2	10	2			51
	8	2	10	11	8	3	1			52
				1	1					53
	41		41	42	21	21	1			54
										55
										56
										57
										58
										59
										60
	6	2	8	13	8	5	2			61
	8		8	8	2	6				62
										63
	3	1	4	7	1	6	1	1		64
	5		5	6	2	4	1			65
										66
47	356	112	515	690	167	523	140	15		
										1
										2
										3
										4
										5
										6
										7
										8
										9
47	356	112	515	690	167	523	140	15		

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17A.—ACCIDENTS.—CONTINUED.

Line number.	Railroads.	Collisions.						Coupling cars.					
		Killed.			Injured.			Killed.			Injured.		
		Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.
1	Au Sable & Northwestern	----	----	----	----	----	----	----	----	----	----	----	----
2	Chicago, Detroit & C. G. T. Junction	----	----	----	----	----	----	----	----	----	----	10	----
3	Chicago & Grand Trunk	----	----	----	1	1	----	----	----	----	----	15	----
4	Chicago, Kalamazoo & Saginaw	----	----	----	----	----	----	----	----	----	----	----	----
5	Chicago & Northwestern	----	2	----	----	3	----	----	----	----	----	16	----
6	Chicago & West Michigan	----	----	----	5	3	----	----	2	----	----	----	----
7	Cincinnati, Jackson & Mackinaw	----	----	----	----	----	----	----	----	----	----	4	----
8	Cincinnati, Saginaw & Mackinaw	----	----	----	----	----	----	----	----	----	----	3	----
9	Cincinnati, Wabash & Michigan	----	----	----	----	----	----	----	----	----	----	5	----
10	Detroit, Bay City & Alpena	----	----	----	----	----	----	----	----	----	----	1	----
11	Detroit, Grand Haven & Milwaukee	----	----	----	2	3	----	----	----	----	----	27	----
12	Detroit, Lansing & Northern	----	----	----	2	1	----	----	1	----	----	----	----
13	Grand Rapids, Lansing & Detroit	----	----	----	----	----	----	----	----	----	----	----	----
14	Saginaw & Western	----	----	----	----	----	----	----	----	----	----	----	----
15	Duluth, South Shore & Atlantic	----	2	----	----	1	----	----	1	----	----	24	----
16	Flint & Pere Marquette	----	1	----	1	1	----	----	----	----	----	16	----
17	Frankfort & Southeastern	----	----	----	----	----	----	----	----	----	----	----	----
18	Grand Rapids & Indiana	----	3	----	1	3	----	----	1	----	----	1	----
19	Muskegon, Grand Rapids & Indiana	----	----	----	----	----	----	----	----	----	----	----	----
20	Traverse City	----	----	----	----	----	----	----	----	----	----	----	----
21	Hancock & Calumet	----	----	----	----	----	----	----	----	----	----	----	----
22	Indiana & Lake Michigan	----	----	----	----	----	----	----	----	----	----	1	----
23	Jefferson Avenue	----	----	----	----	----	----	----	----	----	----	----	----
24	Lake Shore & Michigan Southern System	----	----	----	----	3	----	----	----	----	----	----	----
25	Detroit & Chicago	----	----	----	----	----	----	----	----	----	----	----	----
26	Detroit, Hillsdale & Southwestern	----	----	----	----	----	----	----	----	----	----	----	----
27	Detroit, Monroe & Toledo	----	----	----	----	----	----	----	----	----	----	----	----
28	Fort Wayne & Jackson	----	----	----	----	----	----	----	----	----	----	----	----
29	Kalamazoo, Allegan & Grand Rapids	----	----	----	----	----	----	----	----	----	----	----	----
30	Kalamazoo & White Pigeon	----	----	----	----	----	----	----	----	----	----	----	----
31	Northern Central Michigan	----	----	----	----	----	----	----	----	----	----	----	----
32	Sturgis, Goshen & St. Louis	----	----	----	----	----	----	----	----	----	----	----	----
33	Lowell & Hastings	----	----	----	----	----	----	----	----	----	----	----	----
34	Manistee & Grand Rapids	----	----	----	----	----	----	----	----	----	----	----	----
35	Manistee & Northeastern	----	----	----	----	----	----	----	----	----	----	----	----
36	Manistique	----	----	----	----	----	----	----	----	----	----	----	----
37	Mason & Oceana	----	----	----	----	----	----	----	----	----	----	----	----
38	Michigan Air Line Railway	----	----	----	----	----	----	----	----	----	----	2	----
39	Michigan Central System	----	1	----	----	----	----	----	3	----	----	20	----
40	Battle Creek & Sturgis	----	----	----	----	----	----	----	----	----	----	----	----
41	Bay City & Battle Creek	----	----	----	----	----	----	----	----	----	----	----	----
42	Canada Southern Bridge	----	----	----	----	----	----	----	----	----	----	----	----
43	Detroit & Bay City	----	----	----	----	----	----	----	----	----	----	----	----
44	Grand River Valley	----	----	----	----	----	----	----	----	----	----	----	----
45	Jackson, Lansing & Saginaw	----	----	----	----	----	----	----	----	----	----	----	----
46	Kalamazoo & South Haven	----	----	----	----	----	----	----	----	----	----	----	----
47	Michigan Air Line Railroad	----	----	----	----	----	----	----	----	----	----	----	----
48	Michigan Midland & Canada	----	----	----	----	----	----	----	----	----	----	----	----
49	Saginaw Bay & Northwestern	----	----	----	----	----	----	----	----	----	----	----	----
50	Toledo, Canada Southern & Detroit	----	----	----	----	----	----	----	----	----	----	----	----
51	Milwaukee, Lake Shore & Western	----	----	----	----	3	----	----	----	----	----	3	----
52	Milwaukee & Northern	----	----	----	----	----	----	----	----	----	----	5	----
53	Mineral Range	----	----	----	----	----	----	----	----	----	----	----	----
54	Minneapolis, St. Paul & Sault Ste. Marie	----	----	----	----	----	----	----	----	----	----	6	----
55	Pontiac, Oxford & Northern	----	----	----	----	----	----	----	----	----	----	----	----
56	Saginaw, Tuscola & Huron	----	----	----	----	----	----	----	----	----	----	----	----
57	Saginaw Valley & St. Louis	----	----	----	----	----	----	----	----	----	----	----	----
58	Saginaw & Grand Rapids	----	----	----	----	----	----	----	----	----	----	----	----
59	St. Clair Tunnel	----	----	----	----	----	----	----	----	----	----	----	----
60	St. Joseph Valley	----	----	----	----	----	----	----	----	----	----	----	----
61	Toledo, Ann Arbor & North Michigan	----	1	2	----	----	----	----	----	----	----	1	----
62	Toledo, Saginaw & Muskegon	----	----	----	----	----	----	----	----	----	----	5	----

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ACCIDENTS.—CONTINUED.

Derailments.						Falling from trains.						Frogs..						Getting on and off trains.						High'y crossings.						Line number.
Killed.			Injured.			Killed.			Injured.			Killed.			Injured.			Killed.			Injured.			Killed.			Injured.			
Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	
										1												1	1			2			1	1
										7						1					3	9	2			5			4	2
	1			3			4			2									1			1								3
																										2			3	4
				1						1																1				5
			1			1	1			2											2					1			1	6
										2								1				1								7
																														8
																														9
				2					1	5											1	4	2			1	1		3	10
							3		1	4	1								1											11
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						1																	1							52
				1			1			7												1								53
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																														58
																														59
																														60
				2	2					1												1								61
																														62

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17A.—ACCIDENTS.—CONTINUED.

Line number.	Railroads.	Collisions.						Coupling cars.					
		Killed.			Injured.			Killed.			Injured.		
		Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.
63	Toledo & South Haven	----	----	----	----	----	----	----	----	----	----	----	----
64	Wabash	----	----	----	----	----	----	----	----	----	----	----	----
65	Wisconsin Central (G. & M. River)	----	----	----	----	----	----	----	----	----	----	----	----
66	Detroit Union R. R. Depot & Station Co.	----	----	----	----	----	----	----	----	----	----	----	----
	Total commercial roads	----	10	2	12	22	----	----	8	----	----	165	----
	ORE AND FOREST ROADS.												
1	Bear Lake & Eastern	----	----	----	----	----	----	----	----	----	----	----	----
2	Crawford & Manistee River	----	----	----	----	----	----	----	----	----	----	----	----
3	Dead River	----	----	----	----	----	----	----	----	----	----	----	----
4	Grass Lake & Manistee River	----	----	----	----	----	----	----	----	----	----	----	----
5	Hecla & Torch Lake	----	----	----	----	----	----	----	----	----	----	----	----
6	Lake County	----	----	----	----	----	----	----	----	----	----	----	----
7	Manistee & Luther	----	----	----	----	----	----	----	----	----	----	----	----
8	North Branch & Sauble River	----	----	----	----	----	----	----	----	----	----	----	----
9	Quincy & Torch Lake	----	----	----	----	----	----	----	----	----	----	----	----
	Total ore and forest roads	----	----	----	----	----	----	----	----	----	----	----	----
	Total all roads	----	10	2	12	22	----	----	8	----	----	165	----

17B.—ACCIDENTS CLASSIFIED.—CONTINTED.

Line number.	Railroads.	Miscellaneous						Overhead obstructions.					
		Killed.			Injured.			Killed.			Injured.		
		Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.
1	Au Sable & Northwestern	----	----	----	----	----	----	----	----	----	----	----	----
2	Chicago, Detroit & C. G. T. Junction	----	1	----	----	2	1	----	----	----	----	----	----
3	Chicago & Grand Trunk	----	2	----	1	4	----	----	----	----	----	----	----
4	Chicago, Kalamazoo & Saginaw	----	----	----	----	----	----	----	----	----	----	----	----
5	Chicago & Northwestern	----	4	1	----	5	----	----	----	----	----	----	----
6	Chicago & West Michigan	----	1	----	----	2	1	----	----	----	----	----	----
7	Cincinnati, Jackson & Mackinaw	----	----	----	----	2	----	----	----	----	----	----	----
8	Cincinnati, Saginaw & Mackinaw	----	1	----	----	2	----	----	----	----	----	----	----
9	Cincinnati, Wabash & Michigan	----	----	----	----	3	----	----	----	----	----	1	----
10	Detroit, Bay City & Alpena	----	1	----	----	----	----	----	----	----	----	----	----
11	Detroit, Grand Haven & Milwaukee	----	1	----	----	6	4	----	----	----	----	3	----
12	Detroit, Lansing & Northern	----	1	----	----	----	1	----	----	----	----	----	----
13	Grand Rapids, Lansing & Detroit	----	----	----	----	----	----	----	----	----	----	----	----
14	Saginaw & Western	----	----	----	----	----	----	----	----	----	----	----	----
15	Duluth, South Shore & Atlantic	----	1	----	----	1	1	----	----	----	----	----	----
16	Flint & Pere Marquette	----	----	----	----	----	----	----	----	----	----	----	----
17	Frankfort & Southeastern	----	----	----	----	----	----	----	----	----	----	----	----
18	Grand Rapids & Indiana	----	----	----	24	9	1	----	----	----	----	----	----
19	Muskegon, Grand Rapids & Indiana	----	----	----	----	----	----	----	----	----	----	----	----
20	Traverse City	----	----	----	----	----	----	----	----	----	----	----	----
21	Hancock & Calumet	----	----	----	----	----	----	----	----	----	----	----	----
22	Indiana & Lake Michigan	----	----	----	----	----	----	----	----	----	----	----	----
23	Jefferson Avenue	----	----	----	----	----	----	----	----	----	----	----	----

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ACCIDENTS—CONTINUED.

Derailments.						Falling from trains.						Frogs.				Getting on and off trains.						High'y crossings.						Line number.
Killed.			Injured.			Killed.			Injured.			Killed.		Injured.		Killed.			Injured.			Killed.			Injured.			
Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Passengers.	Employes.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	
										1														1				63
																								1				64
																												65
																												66
	1		1	9	2	2	12		2	37	1			2		3	4	7	7	21	9		1	25			18	
																												1
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																												3
																												4
																												5
																												5
																												6
																												7
																												8
	1		1	9	2	2	12		2	37	1			2		3	4	7	7	21	9		1	25			18	

ACCIDENTS CLASSIFIED.—CONTINUED.

Trespassers on trains.						Trespassers on tracks.						Total killed.			Total injured.			Total casualties.			Line number.
Killed.			Injured.			Killed.			Injured.												
Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	
								4					1	3		14	7		15	10	1
		1			3			4			7		2	10	5	37	16	5	39	26	2
		1			2			9			2		12	11		30	4		42	15	3
					5			4			1		3	6	5	5	10	5	8	16	4
		3			1			1						2		7	1		7	3	5
					1			2					1	3	2	6	1	2	7	4	6
								1			1			1		10	2		10	3	7
		1			4			1			3	1	2	1	1	1		2	3	1	8
		1			1			1			1	1	2	5	2	1	3	3	3	8	9
																					10
																					11
					1			2			3		5	4		37	7		42	11	12
					1			7			3		3	9	3	21	8	3	24	17	13
																					14
		2			3			6			5		4	9	25	13	9	25	17	18	15
																					16
																					17
																1			1		18
																					19

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17B.—ACCIDENTS CLASSIFIED.—CONTINUED.

Line number.	Railroads.	Miscellaneous.						Overhead obstructions.					
		Killed.			Injured.			Killed.			Injured.		
		Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.
24	Lake Shore & Michigan Southern System	...	....	1	....	10	1	....	....	....	....	....	....
25	Detroit & Chicago	....	....	....	....	....	....	....	....	....	....	....	....
26	Detroit, Hillsdale & Southwestern	....	....	....	....	....	....	....	....	....	....	....	....
27	Detroit, Monroe & Toledo	....	....	....	....	....	....	....	....	....	....	....	....
28	Fort Wayne & Jackson	....	....	....	....	....	....	....	....	....	....	....	....
29	Kalamazoo, Allegan & Grand Rapids	....	....	....	....	....	....	....	....	....	....	....	....
30	Kalamazoo & White Pigeon	....	....	....	....	....	....	....	....	....	....	....	....
31	Northern Central Michigan	....	....	....	....	....	....	....	....	....	....	....	....
32	Sturgis, Goshen & St. Louis	....	....	....	....	....	....	....	....	....	....	....	....
33	Lowell & Hastings	....	....	....	....	....	....	....	....	....	....	....	....
34	Manistee & Grand Rapids	....	....	....	....	....	....	....	....	....	....	....	....
35	Manistee & Northeastern	....	1	....	....	....	....	....	....	....	....	....	....
36	Manistique	....	....	....	....	1	....	....	....	....	....	....	....
37	Mason & Oceana	....	....	....	....	....	....	....	....	....	....	....	....
38	Michigan Air Line Railway	....	....	....	....	....	....	....	....	....	....	....	....
39	Michigan Central System	....	1	....	....	7	....	....	....	....	....	....	....
40	Battle Creek & Sturgis	....	....	....	....	....	....	....	....	....	....	....	....
41	Bay City & Battle Creek	....	....	....	....	....	....	....	....	....	....	....	....
42	Canada Southern Bridge	....	....	....	....	....	....	....	....	....	....	....	....
43	Detroit & Bay City	....	....	....	....	....	....	....	....	....	....	....	....
44	Grand River Valley	....	....	....	....	....	....	....	....	....	....	....	....
45	Jackson, Lansing & Saginaw	....	....	....	....	....	....	....	....	....	....	....	....
46	Kalamazoo & South Haven	....	....	....	....	....	....	....	....	....	....	....	....
47	Michigan Air Line Railroad	....	....	....	....	....	....	....	....	....	....	....	....
48	Michigan Midland & Canada	....	....	....	....	....	....	....	....	....	....	....	....
49	Saginaw Bay & Northwestern	....	....	....	....	....	....	....	....	....	....	....	....
50	Toledo, Canada Southern & Detroit	....	....	....	....	....	....	....	....	....	....	....	....
51	Milwaukee, Lake Shore & Western	....	....	1	....	2	....	....	....	....	....	....	....
52	Milwaukee & Northern	....	....	....	....	3	....	....	....	....	....	....	....
53	Mineral Range	....	....	....	....	....	....	....	....	....	....	....	....
54	Minneapolis, St. Paul & Sault Ste. Marie	....	1	....	....	25	....	....	....	....	....	....	....
55	Pontiac, Oxford & Northern	....	....	....	....	....	....	....	....	....	....	....	....
56	Saginaw, Tuscola & Huron	....	....	....	....	....	....	....	....	....	....	....	....
57	Saginaw Valley & St. Louis	....	....	....	....	....	....	....	....	....	....	....	....
58	Saginaw & Grand Rapids	....	....	....	....	....	....	....	....	....	....	....	....
59	St. Clair Tunnel	....	....	....	....	....	....	....	....	....	....	....	....
60	St. Joseph Valley	....	....	....	....	....	....	....	....	....	....	....	....
61	Toledo, Ann Arbor & North Michigan	....	....	....	....	2	....	....	....	....	....	....	....
62	Toledo, Saginaw & Muskegon	....	....	....	....	2	....	....	....	....	....	....	....
63	Toledo & South Haven	....	....	....	....	....	....	....	....	....	....	....	....
64	Wabash	....	....	....	....	2	....	....	....	....	....	....	....
65	Wisconsin Central (Gogebic & Montreal River)	....	....	....	....	5	....	....	....	....	....	....	....
66	Detroit Union R. R. Depot & Station Co.	....	....	....	....	....	....	....	....	....	....	....	....
	Total commercial roads	....	16	3	25	94	10	....	....	....	....	4	....
	ORE AND FOREST ROADS.												
1	Bear Lake & Eastern	....	....	....	....	....	....	....	....	....	....	....	....
2	Crawford & Manistee River	....	....	....	....	....	....	....	....	....	....	....	....
3	Dead River	....	....	....	....	....	....	....	....	....	....	....	....
4	Grass Lake & Manistee River	....	....	....	....	....	....	....	....	....	....	....	....
5	Hecla & Torch Lake	....	....	....	....	....	....	....	....	....	....	....	....
6	Lake County	....	....	....	....	....	....	....	....	....	....	....	....
7	Manistee & Luther	....	....	....	....	....	....	....	....	....	....	....	....
8	North Branch & Sauble River	....	....	....	....	....	....	....	....	....	....	....	....
9	Quincy & Torch Lake	....	....	....	....	....	....	....	....	....	....	....	....
	Total ore and forest roads	....	....	....	....	....	....	....	....	....	....	....	....
	Total all roads	....	16	3	25	94	10	....	....	....	....	4	....

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ACCIDENTS CLASSIFIED.—CONTINUED.

Trespassers on trains.						Trespassers on tracks.						Total killed.			Total injured.			Total casualties.			Line number.
Killed.			Injured.			Killed.			Injured.												
Passengers.	Employes.	Others.	Passenger.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	
					2			4			2			9		14	7		14	16	24
																					25
																					26
																					27
																					28
																					29
																					30
																					31
																					32
																					33
																					34
													1						1		35
													1			1			2		36
																					37
														1		3			3	1	38
		5			9			22			4	1	10	33	1	33	19	2	43	52	39
																					40
																					41
																					42
																					43
																					44
																					45
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																					47
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																					49
																					50
					1						1		1	1		8	2		9	3	51
					1							1				8	2	1	8	2	52
													1						1		53
										1			1			41			42		54
																					55
																					56
																					57
																					58
																					59
																					60
		1						1					1	4		6	2		7	6	61
																8			8		62
																					63
					1			2						3		3	1		3	4	64
								1						1		5			5	1	65
																					66
		12			36			69		1	36	5	52	118	47	355	112	52	407	230	
																					1
																					2
																					3
																					4
																					5
																					6
																					7
																					8
																					9
		12			36			69		1	36	5	52	118	47	355	112	52	407	230	

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17C.—CLASSIFICATION OF EMPLOYES,

Line No.	Railroads.	Baggage-men, number.	Brake-men, number.	Conductors, number.
62	Toledo, Saginaw & Muskegon		8	
63	Toledo & South Haven			
64	Wabash			
65	Wisconsin Central (Gogebic & Montreal River)		1	
66	Detroit Union Railroad Depot & Station Company			
	Total commercial roads	3	190	18
	ORE AND FOREST ROADS.			
1	Bear Lake & Eastern			
2	Crawford & Manistee River			
3	Grass Lake & Manistee River			
4	Hecla & Torch Lake			
5	Lake County			
6	Manistee & Luther			
7	North Branch & Sauble River			
8	Quincy & Torch Lake			
	Total ore and forest roads			
	Total all roads	3	190	18

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KILLED AND INJURED.—CONTINUED.

Engineers, number.	Firemen, number.	Laborers, number.	Shopmen number.	Yardmen, number.	Unclassified, number.	Total killed, number.	Total injured, number.	Total number.	Line No.
							8	8	62
									63
		1		1	1		3	3	64
2				2			5	5	65
									66
16	13	36	7	95	29	52	355	407	
									1
									2
									3
									4
									5
									6
									7
									8
16	13	36	7	95	29	52	355	407	

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18.—SUMMARY FROM ANNUAL REPORTS OF 1891 AND 1892, COVERING THE CALENDAR YEARS 1890 AND 1891 RESPECTIVELY.

	1890.	1891.	Increase.	Decrease.	Per cent of increase.	Per cent of decrease.
Length of roads owned—miles	12,729.07	13,223.34	494.27		3.87	
Length of roads operated—miles	14,691.99	15,266.41	574.42		3.92	
Length of roads in Michigan—miles	6,935.29	7,274.94	339.65		4.88	
Length of second track in Michigan—miles	140.51	141.16	.65		.046	
Length of sidings in Michigan—miles	1,934.10	1,893.66		40.44		2
Computed as single track in Michigan—miles	9,018.89	9,309.76	290.87		3.23	
Capital stock paid in	$338,199,052 70	$331,886,888 98		$6,312,163 72		1.86
Paid in per mile of road	23,019 28	25,098 57	$2,079 29		9.03	
Total funded debt	387,565,869 10	398,409,755 20	10,843,886 10		2.81	
Total floating debt	27,495,659 77	37,371,915 12	9,876,255 35		35.55	
Total debt	415,061,528 87	435,781,670 32	20,720,141 45		4.99	
Average debt per mile of road	32,711 39	32,955 48	244 09		.74	
Total stock and debt	750,831,052 76	767,668,559 30	16,837,506 54		2.19	
Stock and debt per mile of road	58,985 54	58,054 05		931 49		1.6
Total cost of roads and equipment	699,401,321 15	704,894,197 04	5,492,875 89		.78	
Cost per mile of road	54,945 24	53,306 82		1,638 42		2.8
Proportion of cost for Michigan	281,205,724 55	277,401,397 57		3,804,326 98		1.35
Earnings:						
Passenger	$23,639,079 10	$25,409,645 69	$1,770,566 59		7.49	
Express	1,761,159 32	1,797,388 80	36,229 48		2.05	
Mail	2,478,673 48	2,813,067 79	334,394 31		1.34	
Freight	63,842,047 37	65,251,790 39	1,409,743 02		2.20	
Other sources	458,315 22	505,993 96	47,678 68		10.40	
Total traffic earnings	$92,179,274 49	$95,777,886 57	$3,598,612 08		3.90	
Per mile of road	$6,285 11	$6,273 76		$11 35		.17
Per train mile—passenger	98.80	1 08.8	$0 15			
Per train mile—freight	1 24.33	1 48.4	24.07			
Per train mile for all trains earning revenue	1 13.35	1 33.2	19.85			
In excess of operating expenses	$29,505,342 06	$29,747,013 85	$241,671 79		.81	
Receipts in addition to traffic earnings	1,089,640 33	904,234 84		$185,405 91		17.01
Total revenue from operation	a $93,430,433 60	$96,682,121 41	$3,251,687 81		3.48	

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Operating expenses:						
Maintenance of way	$12,832,021 60	$13,715,304 49		$116,717 11		90
Maintenance of rolling stock	9,690,258 85	10,958,735 05	$1,268,476 20		11.57	
Conducting transportation	31,859,541 84	34,214,363 97	2,354,522 13		7.39	
General expenses and taxes	9,542,969 25	8,142,469 21		1,400,500 04		14.67
Total operating expenses and taxes	$63,925,091 54	$66,030,872 72	2,105,781 18		3.29	
Per mile of road	$4,351 02	$4,325 24		$25 78		.57
Per train mile	78.84	91.73		13.39		
Per cent of earnings	69.17	68.94		.23		
Interest and rentals—total	$22,317,496 43	$21,110,457 39		$1,206,979 04		[a] 5.41
Per mile of road operated	1,519 16	1,382 80		136 36		9
Per train mile	27.4	29.39		01.99		
Per cent of earnings	24.17	22.04		2.13		
Operating expenses, interest and rentals	$86,242,527 97	$87,141,330 11	$898,802 14		1.04	
Per mile of road operated	5,870 18	5,708 04		$162 14		2.76
Per train mile	1 05.7	1 21.3	15.6			
Per cent of earnings	93.34	90.98		2.36		
Train Mileage:						
Passenger	29,815,553	27,661,492		2,151,061		7.22
Freight	51,505,872	44,151,112		7,354,760		14.27
Total earning revenue	81,318,425	71,812,604		9,505,821		11.69
Traffic, Passenger:						
Whole number passengers carried	33,503,059	34,208,271	705,212		2.10	
Whole number carried one mile	1,181,137,085	1,139,195,367		41,941,718		3.55
Average distance traveled by each—miles	35.26	33.30		1.96		
Agerage rate of fare per mile	$0 02.37	$0 02.23		$0 00.14		
Traffic, Freight:						
Total tons moved	63,403,857	57,852,628		5,551,229		8.75
Total moved one mile	8,997,937,524	7,770,514,581		1,227,422,943		13.64
Average ton haul—miles	145.12	134.31		10.81		
Average rate per ton per mile	$0 00.709	$0 00.844	$0 00.135			

a Includes $161,518.78 not elsewhere taken into account.

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19.—COMPARATIVE SUMMARY OF ANNUAL REPORTS FOR FIVE YEARS, 1887 TO 1891.

	1887.	1888.	1889.	1890.	1891.
Total length of railroad and branches—miles	11,982.91	11,645.53	12,267.06	12,729.07	13,223.34
Total length of railroads in Michigan—miles	5,768.41	6,411.66	6,759.55	6,944.28	7,274.94
Total length of double track—miles	121.10	120.00	120.00	140.51	141.16
Total length of sidings—miles	1,430.68	1,644.83	1,775.44	1,934.10	1,898.66
Capital stock paid in	$262,126,928 87	$289,577,926 09	$355,949,272 84	$338,199,052 70	$331,886,888 98
Capital stock paid in per mile of road	21,966 71	24,866 01	24,177 05	23,019 28	25,036 57
Total funded debt	261,021,980 63	295,797,359 92	393,363,187 01	388,889,869 10	398,409,755 20
Total unfunded debt	25,434,821 40	26,806,676 80	28,340,390 19	27,495,659 77	37,371,915 12
Total debt	286,456,802 03	322,604,036 72	421,703,577 20	416,385,528 87	435,781,670 32
Total debt per mile of road	24,006 00	25,312 13	33,757 00	32,788 92	32,955 48
Total stock and debt	548,583,730 90	612,181,972 81	777,652,850 04	750,831,052 76	767,668,559 30
Total stock and debt per mile of road	45,972 71	50,178 14	62,267 53	59,125 35	58,054 05
Total cost of roads and equipment	499,601,490 52	549,282,290 27	690,006,646 56	699,401,821 15	704,894,197 04
Total cost of roads and equipment per mile	41,031 00	47,166 80	55,207 63	55,075 47	53,306 82
Proportion of cost for Michigan	240,157,066 90	248,417,379 72	265,720,770 83	281,205,724 55	277,401,397 57
Earnings:					
From passengers	$21,382,606 38	$21,869,494 05	$23,482,870 24	$23,689,079 10	25,409,645 69
From mails	1,574,818 36	2,091,312 57	2,491,798 00	2,478,673 48	2,813,067 79
From express	1,548,953 04	1,612,271 25	1,660,429 98	1,761,159 32	1,797,388 80
From freight	56,672,882 95	54,040,375 86	59,132,921 86	63,842,047 37	65,251,790 39
From other sources	76,992 10	159,953 67	451,706 20	458,315 22	505,998 90
Total earnings	$81,556,252 85	$79,773,407 40	$87,219,726 28	*a* $92,340,793 27	$95,777,886 57
Earnings per mile of road	$6,574 95	$5,809 64	$5,924 22	$6,285 11	$6,273 76
Earnings per train mile—passenger trains	1 18.8	1 10	1 04.04	93.80	1 06.8
Earnings per train mile—freight trains	1 52.6	1 13.7	1 23.02	1 24.3	1 48.4
Earnings per train mile—all trains	1 40.48	1 11.7	1 22.19	1 13.3	1 33.2
Earnings above operating expenses	$29,166,268 55	$24,771,546 55	$22,604,871 33	$29,505,342 06	$29,747,013 85
Receipts in addition to earnings	$1,367,469 19	$1,255,017 03	$926,865 10	$1,756,063 56	$1,546,627 18
Total income for the year	$82,923,722 04	$81,028,424 43	$88,146,594 38	$94,096,856 83	$97,324,513 75

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Expenses:					
Operating expenses—maintenance of way and buildings	$11,266,088 62	$11,604,422 51	$13,325,210 77	$12,832,021 60	$12,715,304 49
Operating expenses—motive power and cars	8,129,557 58	8,089,225 35	10,321,906 23	9,690,258 85	10,958,735 05
Operating expenses—conducting transportation	26,324,970 92	28,144,779 04	32,109,857 56	31,859,841 84	34,214,363 97
Operating expenses—general expenses	6,669,417 18	7,213,433 95	8,857,880 39	9,542,969 25	8,142,469 21
Total operating expenses	$52,389,984 80	$55,001,860 85	$64,614,854 95	$63,925,091 54	$66,030,872 72
Operating expenses per mile of road	$4,216 34	$4,002 88	$4,388 01	$4,351 02	$4,325 24
Operating expenses per train mile	90.09	86.8	93.94	78.3	91.73
Operating expenses—per cent of earnings	64.23	68.90	74.08	69.17	68.94
Interest and rentals—total	$17,855,110 88	$18,678,487 16	$23,788,757 88	$22,317,496 43	$21,110,457 39
Interest and rentals per mile of road	1,439 37	1,362 91	1,615 80	1,519 16	1,382 80
Interest and rentals per train mile	30.75	29.47	33.30	27.4	29.39
Interest and rentals—per cent of earnings	21.77	23.40	27.27	24.17	22.04
Operating expenses, interest and rentals—total	$70,245,094 68	$73,675,348 01	$88,403,612 83	$86,242,527 97	$87,141,330 11
Operating expenses—interest and rentals per mile of road	$5,655 71	$5,365 79	$6,003 81	$5,870 18	$5,708 04
Operating expenses—interest and rentals per train mile	1 20.85	1 16.25	1 27.24	1 65.7	1 21.3
Operating expenses—interest and rentals—per cent of earnings	86.00	92.35	1 01.35	93.34	90.98
Average rate per ton per mile	$0 01.090	$0 00.794	$0 00.754	$0 00.709	$0 00.844

a Includes $161,518.78 not elsewhere taken into account.

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